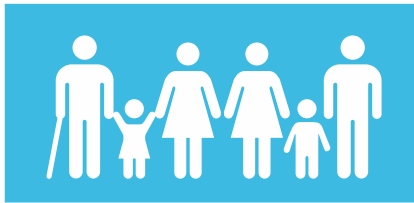
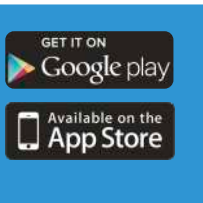




**ADAR POONAWALLA**  
**CLEAN CITY INITIATIVE**



**Sustainability  
Excellence  
Report 2022-23**



**LEADING INNOVATION FOR  
TECHNOLOGY DRIVEN AND SUSTAINABLE  
WASTE MANAGEMENT IN PUNE**



# Message from Mr. Adar C. Poonawalla



Dear esteemed partners and stakeholders,

As we embark on this journey of reflection and progress, it is with great pride that I present to you the fourth edition of our Sustainability Excellence Report for the year 2022-23, shining a spotlight on our transformative Adar Poonawalla Clean City Initiative, APCCI. As the founder of the Clean City Initiative, I find immense satisfaction in sharing the remarkable strides we have taken on this path of unwavering commitment to environmental sustainability and social progress.

Our vision, at the heart of APCCI, is to empower communities through innovation and collaboration. We firmly believe that a cleaner, more sustainable future is attainable when we work hand in hand, harnessing the power of innovation and embracing public-private collaboration.

## **Dignity in Labor and Public-Private Collaboration:**

A central theme of APCCI is the infusion of dignity into the often-underappreciated work of street cleaning through the dynamic partnership between public and private sectors. In a society where this task is traditionally assigned to those from the lowest income strata, we strive to bring about an attitudinal shift, making the endeavour of keeping public spaces clean more dignified, using the combined forces of collaboration, technology, and sustainability. Our initiative serves as an exemplar of how public and private collaboration can effectively

serve the greater good, defying the perception that such endeavours are inherently complicated and destined for failure.

## **Technological Innovation for Efficiency and Sustainability:**

Technology and innovation have undeniably touched every facet of human life, yet the essential task of maintaining the cleanliness of public spaces still predominantly relies on manual labour. This not only endangers the health of those involved but also falls short of compliance with the Municipal Solid Waste Management Rules. APCCI is rewriting this narrative through the intelligent use of technology, automation, and a dynamic partnership with government entities. Our journey is a testament to the fact that technological innovation can significantly enhance efficiency and sustainability in public cleaning, safeguarding both the environment and the well-being of those involved.

## **A Cleaner, More Sustainable Future:**

Our dedication to a cleaner, more sustainable future is unwavering, and APCCI stands as a living testament to this commitment. We understand the challenges faced by Urban Local Bodies (ULBs) and are resolute in our pursuit of helping them fulfil their responsibilities for public space cleanliness. Our mission transcends mere aspirations, as we take concrete steps to transform these dreams into reality. Our work is not just about cleaning streets; it's about

cleaning our environment, our attitudes, and our collective future.

**Quantifying Our Impact:** In our pursuit of transparency and accountability, we believe in quantifying our impact, ensuring that every step we take is measured, recorded, and accessible to our stakeholders. We aim to showcase our progress through tangible metrics, allowing you to witness the transformation that your support has facilitated.

**Success Stories and Testimonials:** We are eager to share the success stories and testimonials that have emerged from our journey, serving as proof that change is not only possible but is already underway. The stories of transformation, empowerment, and progress that we have encountered along the way are a testament to the profound impact of our work.

**Acknowledging Your Contributions:** It is with a heart full of gratitude that I acknowledge the unwavering support and contributions of our partners and stakeholders. Your dedication has been instrumental in the remarkable progress we have achieved. Together, we are sowing the seeds of a cleaner, more sustainable future, and your continued support is the nourishment that allows us to thrive.

As we stand at this juncture of reflection and growth, we are filled with a sense of purpose and optimism. We envision a future where our collaborative efforts

continue to bear fruit, where innovation continues to drive efficiency, and where dignity and sustainability are at the forefront of our endeavours. We eagerly anticipate the road ahead and the transformation it promises.

In closing, I extend my heartfelt gratitude to each one of you for your dedication, your unwavering partnership, and your shared vision for a cleaner, more sustainable future. Together, we are on the cusp of achieving something truly remarkable.

With sincere appreciation and unwavering determination,

Adar C. Poonawalla,  
Founder, APCCI

# Message from Mr. Krishnan Komandur



Dear partners and stakeholders,

As the CEO of APCCI, it is both a privilege and a profound responsibility to address you in this annual ESG report, reaffirming our unwavering dedication to fostering a sustainable future for Pune City and the broader community. Building upon our enduring mission, which was instigated by the visionary Mr. Adar C. Poonawalla, we remain steadfast in our commitment to elevate environmental consciousness and champion sustainable waste management practices through the powerful framework of Public-Private-People Partnerships (PPPP).

In the pursuit of our aspirations, I am delighted to report the remarkable strides we've made in our initiatives, as evidenced in our most recent Sustainability Excellence Report for the year 2022-23. Our journey is driven by an innate sense of responsibility to steward our planet and secure the well-being of generations yet to come.

At APCCI, we represent the embodiment of true PPPP collaboration, a harmonious alliance between the APCCI team, Urban Local Body (ULB) teams, our esteemed NGO partners such as Janwani and Poornam Ecovision Foundation, as well as the engaged citizens and corporate volunteers. This collective force has enabled us to address critical issues, such as persistent waste hotspots, streamlined garbage transfer coordination, and

cleaner, litter-free roads, all while advancing our vision of a more sustainable and livable city.

Our laser-sharp focus on a sustainable future has yielded impressive results, including a substantial reduction in the per-kilometre cost of street cleanliness, plummeting from 0.328 in 2018-19 to a commendable 0.215 in 2022-23. This success can be attributed to unwavering philanthropic support from Mr. Poonawalla and a dedicated pursuit of both financial and environmental sustainability. As exemplified by the APCCI App, designed to foster greater community participation, it has served as a conduit for citizens to raise waste-related concerns, all of which were promptly addressed by our tireless waste warriors.

Furthermore, we have embarked on numerous educational campaigns in schools and among citizen groups, in addition to providing a substantial 1,05,000 litres of clean, potable water to more than 6,000 families in the Fursungi area.

The achievements of APCCI thus far, which encompass resolving critical issues and nurturing a litter-free city, are a testament to our dedication. However, this is just the beginning. Our vision propels us forward, compelling us to scale our programs, forge new alliances, enhance the efficiency of street cleaning through cutting-edge technology and training, and lay the foundations for a circular economy. In August 2022, in



collaboration with Poornam Ecovision Foundation, APCCI initiated a door-to-door collection for E-waste. The results from its inaugural months of operation, spanning from August 2022 to March 2023, stand as a testament to the success of this endeavour. During this period, the project achieved an astounding 256 successful pickups, culminating in the collection of an impressive 15,699.3 kilograms of electronic waste. This accomplishment not only underscores our commitment to responsible waste management but also reflects the collective dedication of our team and partners towards a more sustainable future.

I wish to convey my heartfelt gratitude to all our partners and stakeholders for their invaluable contributions to the triumphs of APCCI. It is through our collective commitment that we will forge a brighter, more sustainable future for all.

In keeping with our guiding principles and strategic vision, I am pleased to present the highlights of our commitment to the ten pillars of ESG excellence:

**Clarity of Purpose and Commitment:** Our unwavering dedication to sustainability remains the lighthouse that guides our every endeavour, ensuring we stay true to our mission of fostering a more sustainable and thriving community.

**Multi-Stakeholder Collaboration:** The heart of our success lies in the dynamic synergy between APCCI, ULB teams, esteemed NGO partners, and the impassioned citizens and volunteers who stand as the bedrock of our transformative initiatives.

**Technology-Driven Solutions:** We continue to harness the potential of cutting-edge technology to maximise our impact, enhance efficiency, and streamline our processes, laying the groundwork for a more sustainable future.

**Measurable Impact and Accountability:** Our commitment to transparency and accountability is unwavering, and we remain dedicated to tracking and reporting on our progress, ensuring that our stakeholders have access to real, tangible results.

**Sustainability and Financial Responsibility:** Our financial prudence and unwavering commitment to sustainability go hand in hand, ensuring the longevity and stability of our initiatives.

**Community Engagement and Empowerment:** Empowering our communities is at the heart of our mission, as we believe in fostering active participation, education, and engagement to create a lasting impact.

**Expansion and Future Growth:** Our vision propels us to expand our reach and scope, extending our efforts to create a larger footprint of sustainable change.

**Diversity and Inclusivity:** We embrace the richness of diversity, championing inclusivity as a driving force in our journey towards a more equitable and sustainable future.

**Adaptability and Innovation:** Our commitment to innovation ensures that we remain agile and adaptable in an ever-changing landscape, continually seeking novel ways to address the challenges we face.

**Shared Responsibility for a Sustainable Future:** At APCCI, we firmly believe that the journey to a sustainable future is one that we all share, and we look forward to collaborating with all our partners and stakeholders in this collective endeavour.

In conclusion, I extend my heartfelt gratitude to each one of you for your unwavering support, partnership, and dedication to the cause of sustainability. As we journey forward, may our collective efforts continue to illuminate the path to a brighter, more sustainable future for all.

With sincere appreciation and resolve,

Krishnan Komandur,  
CEO, APCCI

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# About the Report

APCCI's fourth sustainability report for the year 2022-23 highlights their commitment to engaging stakeholders and local communities in successful waste management solutions. Following the annual reporting cycle, this report reflects APCCI's dedication to fostering public private partnerships, as evidenced by their notable achievements. Prepared in accordance with GRI Standards, the report encompasses APCCI's activities across economic, social, and environmental parameters outlined in the GRI Standards 2021.

The report focuses on APCCI's efforts in Pune and the South G ward of Mumbai, Maharashtra, from April 2022 to March 2023, with 2018-19 serving as the baseline year. A comprehensive GRI Content Index is available, providing easy access to specific information within the report.

Within the report, the "Economic Performance" section highlights Mr. Adar Poonawalla's pledge, APCCI's fleet machine procurement, and payments made to service providers. To ensure the accuracy and integrity of financial data, both independent internal and external auditors have thoroughly examined APCCI's financial statements. Furthermore, environmental

and social parameters data have been sourced from APCCI's official documents.

## Report Development Team:

The report development team consists of Mr. Krishnan S Komandur, CEO of APCCI, representing APCCI, Dr. Rajesh S. Manerikar (Director - Technical) and Neehar M. Barve (Reporting Consultant) from Strategica. Mr. Mangesh Kshirsagar serves as the Project Officer from Janwani. To analyse the data, develop strategic intent, and design a roadmap for implementation, APCCI engaged Strategica, Pune. Acting as the advisor and coordinator of the report, APCCI's project implementation and outreach partner, Janwani, also conducted an audit of APCCI's activities. Collaborating with a cross-functional team from APCCI, Strategica and Janwani worked with the captured data, enabling efficient decision making for sustainable waste management efforts. The aim was to enhance the impact on the life cycle and cleanliness in Pune and Ward No. South G9 of Mumbai. The rigorous evaluation of calculation methodologies and analysis of results by Strategica ensured that the report adheres to the principles of report contents, including stakeholder inclusiveness, sustainability,

context, materiality, and completeness.

## Contact Details:

For comprehensive information on APCCI's sustainable waste management services in Pune and access to the full Sustainability Report, please visit <http://www.adarpcleancity.com/aboutus.html>. Should you have any queries or suggestions regarding the report, Mr. Krishnan Komandur, Chief Executive Officer of APCCI, can be contacted at the registered office address or via email at [ceo@adarpcleancity.com](mailto:ceo@adarpcleancity.com). Headquartered at Mittal Court A Wing, 3rd Floor, Off. Dr. Ambedkar Road, Pune 411011, India, APCCI is an initiative led by Mr. Adar Poonawalla, CEO of Serum Institute of India.



# Purpose and Motivation

## a. About APCCI

APCCI is a socially responsible and environmentally friendly initiative led by Adar C. Poonawalla, CEO of Serum Institute of India. It aims to clean cities, improve the environment, and effectively manage waste on the streets. Through the provision of advanced equipment and machines, the initiative is working to eliminate chronic garbage buildup in Pune and South G9 ward of Mumbai.

## b. Activities of APCCI and Sustainable Development Goals

APCCI aligns with several Sustainable Development Goals (SDGs) set by the United Nations.

### SDG 11

Sustainable Cities and Communities - APCCI's priority of keeping the city clean and improving the environment is directly in line with this goal.

### SDG 12

Responsible Consumption and Production - The use of electric and eco-friendly machines to pick up waste and clear garbage is a step towards responsible consumption and production.

### SDG 13

Climate Action - APCCI's efforts to clean the city and reduce waste contribute to reducing greenhouse gas emissions and mitigating the impacts of climate change.

### SDG 17

Partnerships for the Goals - The initiative's approach of involving multiple stakeholders, including urban local bodies, citizens, and NGOs, is a model of private-public partnership that supports the achievement of the SDGs.

### SDG 3

Good Health and Well-being - APCCI's work in reducing chronic garbage spots and improving waste management helps to improve public health by reducing the spread of diseases caused by unsanitary conditions.

APCCI's recognition by the Honourable Prime Minister of India, Mr. Narendra Modi, and its designation as a Swachh Bharat Ambassador further highlights its alignment with the SDGs and its efforts to achieve a more inclusive, sustainable, and resilient future.

# Impact till 2023

## a. Key Highlights

### Clean City

- Benefitted majority of the Pune city's population, and minority of Mumbai City's population.
- Operative in Pune and Mumbai.
- Covering over 1300+ chronic waste spots.
- Optimising over 1,300 fleet routes.
- Using over 270 low-carbon and advanced fleet-machines.
- Over 250 E-waste pickups with a total collection of over 15,699 kgs of E-waste through DTDC service.
- Installed and/or operating over 4300 litter bins at strategic locations.
- Safe & pure water free for 6409 families round the year through 54 water ATMs

### Model of Public-Private Partnership

- Corporates joined hands with essential services provided by the Government Initially ₹100 crore pledged by Mr. Adar C. Poonawalla as a part of social responsibility included waste management, safe drinking water, pothole-free roads.

### Bringing Dignity to Public Cleaning Jobs through Technology

- Waste warriors are our on-the-ground employees. We seek to make their work safe and hygienic, their lives healthy and dignified.

#### The waste warriors:

- Have no physical contact with the garbage
- Are continuously given on-the-job training by OEMs
- Are trained in safety, BOP, and security functions
- Receive Personal Protection Equipment (PPE)

#### Beyond these direct actions, the APCCI

- Conducts on an average 20 weekly cleaning audits for all activities of on-road machines fleets
- Generates 10 daily reports for better communication and further improvements
- Follows all solid waste management (SWM-2020) guidelines
- Has assigned on average 2 waste warriors per machine

## Citizens Engagement

### APCCI app data

- APCCI mobile app has 4299 live users in the year 2022-23
- Resolved 1062 waste pickup concerns raised by citizens

### Various Behavior Change Communication (BCC) events

- 135 awareness campaigns carried out in 2022-23
- Approximately 21,643 active participations of volunteers
- 2500+ feedback letters received from citizens and students appreciating the efforts

## Financial Sustainability

- The operating expenses are financed by Mr. Adar C. Poonawalla's pledge
- Sponsorship for sports events to promote a healthy lifestyle and cleaning activities
- Plans to scale to other parts of Pune city and put circular economy framework in place
- Plans to work on long-term goals like a waste-to-energy plant

## Pothole Free Roads for Citizens

- State-of-the-art, pothole machines used for the first time in India
- Potholes repaired: 60 square-metres per day
- 4-stage van occupies 2.5 metres of the road without hindering traffic
- The low emission machine recycles old material to repair potholes

## Environmental Performance

- 45.8% of the fleet machinery operated on electricity
- The other 54.2% of the fleet machinery is BS-IV compliant, conforming to the latest emission norms
- Mechanical road sweepers are compliant with PM10 emissions norms of global standards
- Reduction in emission of Particulate Matter in the air. The entire operation is dust-free.
- 24% reduction in Carbon emissions since route optimization & incorporation of e-vehicles.

## Our People - Waste Warriors

- More than 687 skilled jobs created in the waste management sector
- Well-trained manpower across jobs
- More than ₹2188 safety budget per waste warrior, annually
- 8 safety items for every waste warrior
- 0% employee injury rate (accidents)
- 96% job retention
- No vehicles met with accidents
- BOP available in Marathi and English

## Safe Drinking Water for Community

- Maximum production capacity of filtered drinking water at 140,000 litres/Day
- Approximately 105,000 litres, filtered drinking water per day delivered
- 73 water ATMs
- 6400+ active user households

## b. APCCI's contribution to Swachh Bharat Mission

### Objectives of Swachh Bharat Mission:

The Swachh Bharat campaign launched by the Government of India aims to fulfil the vision of "Clean India" by 2nd October 2019, which was the 150th birth anniversary of Mahatma Gandhi. The investment was over ₹62,000 crores (US\$ 9.7 billion).

Objectives of the Swachh Bharat Mission:

- To eradicate open defecation
- To converting sanitary toilets into pour-flush toilets
- To stop manual scavenging
- To generate awareness about sanitation and its linkage with public health
- To bring about behavioural changes in people through awareness
- To empower urban local bodies to design, execute and operate all systems related to cleanliness
- To start scientific processing, disposal, reuse and recycling of municipal solid waste
- To create a conducive environment for the private sector to participate in capital expenditure, and operational and maintenance expenditure

### APCCI's Contribution:

In this section, the APCCI's contributions to environmental, social, and governance (ESG) initiatives are highlighted, with a focus on

collection of street waste, cleaning of chronic spots, waste transportation, and creating awareness. These efforts align with the values of urban local bodies and the goals of the Swachh Bharat mission.

- When it comes to collection of street waste, the organisation utilises advanced electric and eco-friendly machines to efficiently pick up and clear waste from the streets and chronic garbage spots. This not only helps maintain the cleanliness and health of cities, but also reduces the carbon footprint and supports the responsible consumption and production goals of the United Nations' Sustainable Development Goals (SDGs).
- Regarding cleaning chronic spots, the organisation has shown its commitment to improving the environment through the deployment of state-of-the-art equipment and machines. This has resulted in the elimination of chronic garbage buildup and improved waste management in cities across the country.
- Waste transportation is another crucial aspect of the APCCI's ESG initiatives. The organisation collaborates closely with urban local bodies and other stakeholders to ensure that waste is transported and disposed of efficiently and in an environmentally responsible manner.
- In addition to our contributions in the

forementioned areas, APCCI, in collaboration with Poornam Ecovision Foundation, is dedicated to addressing the growing concern of electronic waste (E-waste). We have initiated a comprehensive door-to-door collection system for E-waste to responsibly manage the disposal of electronic products at the end of their life cycles. This not only promotes environmental sustainability but also aligns with the principles of circular economy and responsible consumption.

- Finally, the organisation acknowledges the importance of raising awareness about the significance of waste segregation and management. For this reason, various programs and events have been launched in schools, colleges, and the general public to educate and engage people on this crucial issue. The goal is to inspire action and create a more sustainable future for cities, the country, and the world.

In conclusion, the organisation is pleased to be making a positive impact in the areas of collection of street waste, cleaning of chronic spots, waste transportation, and creating awareness. These initiatives align with the values of urban local bodies and the goals of the Swachh Bharat mission, and the organisation will continue to work towards a more sustainable future.

Select Objectives of Swachh Bharat Mission	APCCI Activity	How does APCCI Contribute?
<ul style="list-style-type: none"> <li>■ To make people aware of healthy sanitation practices by bringing behavioural changes in people</li> </ul>	<ul style="list-style-type: none"> <li>■ Promotional activities for dry &amp; wet waste segregation at the source</li> <li>■ Increasing door to door collection and segregation</li> </ul>	<ul style="list-style-type: none"> <li>■ Information and outreach programs to educate citizens regarding the importance of segregation of waste and disposal using waste litter bins</li> <li>■ Health initiative through PPE for waste warriors of APCCI</li> </ul>
<ul style="list-style-type: none"> <li>■ To empower urban local bodies to design, execute and operate all systems related to cleanliness</li> </ul>	<ul style="list-style-type: none"> <li>■ Cooperation, collaboration, capacity building and resources sharing</li> </ul>	<ul style="list-style-type: none"> <li>■ The activities of APCCI were planned with a focus on the environment and economy</li> <li>■ Resource efficient system</li> <li>■ Service operations optimization</li> <li>■ Timely waste pickup</li> <li>■ Tracking fleet machines by use of App technology</li> </ul>
<ul style="list-style-type: none"> <li>■ To scientifically process, dispose, reuse, and recycle municipal solid waste</li> </ul>	<ul style="list-style-type: none"> <li>■ Capacity building of ULBs' waste helpers for segregation at chronic spots</li> </ul>	<ul style="list-style-type: none"> <li>■ Helping ULBs' helpers on site through information and building capacity for the scientific way of segregating wet and dry waste at all the chronic garbage spots under APCCI</li> </ul>
<ul style="list-style-type: none"> <li>■ To provide the required environment for the private sector to participate in the capital, operational, and maintenance expenditure</li> </ul>	<ul style="list-style-type: none"> <li>■ The private-public partnership of APCCI and ULBs</li> <li>■ Cleaning of streets, chronic waste spots</li> </ul>	<ul style="list-style-type: none"> <li>■ APCCI independently functioning in the mutually decided areas</li> <li>■ Total number of litter bins installed by APCCI across the city– 4300+, which are also cleaned daily</li> <li>■ Total number of chronic spots under APCCI activities– 1364+, where waste is collected and transported to waste transfer stations</li> <li>■ Total on-road fleet machines– 275</li> <li>■ Total Manpower– 687</li> <li>■ Mr. Adar Poonawalla's pledge funds APCCI activities</li> <li>■ Contributed through mechanised cleaning of streets with the help of 'Electric Glutton' deployed</li> </ul>



## c. Letters from Stakeholders

KCB - 14

ले कर्नल बी एल भार्गव, वेटेरन  
प्रशासनिक अधिकारी  
Lt Col B L Bhargava, Veteran  
Administrative & Account Officer

पैराप्लेजिक पुनर्वासि केंद्र  
पाके रोड, कोकणे  
पुणे - ४११०२०  
महाराष्ट्र राज्य

Paraplegic Rehabilitation Centre  
Park Road, Kothane  
Pune - 411020  
Maharashtra State

Tax : (M) 92001 (C) 920 - 25613377  
Fax : (M) 92001 (C) 920 - 25613377  
Mob : 9400873006 / 9422403408  
Email : ksb@bhargava@gmail.com / pcksb@1974@gmail.com  
Website : http://www.mrcs.org

4083/DOJ

01 Feb 2023

CEO  
ADAR PUNEWALA  
MADATSAE

APPLICATION LETTER

Sir,

I. It is intimated that Mr. DARP WARGHATE is working in PRC to clean the Area. from 07 AM to 1500 hrs. He is doing an excellent work in PRC. All residents are very happy for his work.

Thanks.

Yours Sincerely  
Bhargava

Pune Municipal Corporation's  
Golwalkar Guruji English Medium School

54-B, Aundh, Pune - 411 067

Date: 28/01/2023

Outward No: 44

CS. TRILLO-16

सा,  
व्यवस्थापक  
आदर पुनावाला क्लिन लीटी पुणे,

विषय - क्लीनरिटी अंतर्गत कचरा उचलणे बाबत.

महोदय,

उपरोक्त विषयाव्ध्ये आपणास कळविण्यात येते की, क्लीन लीटी अंतर्गत कचरा उचलण्यासाठी आमच्या विद्यालयात आपली कचरा गाडी नियमित येत असून आपले कर्मचारी येथून नियमित कचरा उचलून नेत आहेत. आपल्या कर्मचाऱ्यांच्या सहकार्यामुळे आमच्या शाळेच्या परिसर स्वच्छ राहण्यास मदत होणे. यापुढेही आपले सहकार्य अपेक्षे बरोबर ही विनंती.

धन्यवाद

PRINCIPAL  
P.M.C. School Board's  
Golwalkar English Medium School  
54-B, Aundh, Pune - 8  
Udise No. 27251400104

॥ श्री शिवजी प्रसन्न ॥

ग्रामपंचायत श्रीक्षेत्र थैऊर

सौ. शितल शरद काकडे सारपंच श्री. आप्पासाहेब रामचंद्र काळे उपसरपंच

कार्यालय पत्ता :- गु. पो. थैऊर, तालुका हवेली, जिल्हा पुणे - ४१२११०  
☎ +91 9850807272 Email : grampanchayatthaur@gmail.com

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☎ +91 9850807272 Email : grampanchayatthaur@gmail.com

मा. प. प. आर. सविमेष.  
आदर पुनावाला क्लिन लीटी.

महोदय,

सारपंच, ग्रामविकास अधिकारी, ग्रामपंचायत कार्यकारी व थैऊर ग्रामस्थ यांचे घरीने आदर पुनावाला क्लिनलिटि तर्फे जे आपण थैऊर गाव व वाडयावस्त्यांवर स्वच्छतेचे काम करत आहात त्या बद्दल आपले शक्यता आभार.

आपण आमच्या गावातील व वाडयावस्त्यांवर वारील जे स्वच्छतेचे काम करत आहात त्यामुळे अशागातील दुर्गंध व वाणीचे सारगर्भ तंतुद्वारात येवून रोगाईया प्रसार धांवण्यास मदत झाली आहे. आपण व आपले ड्रायवर करत असल्या कामा बद्दल कौतुक करावे तेवढे घेणे आहे.

आम्ही ग्रामपंचायत थैऊर कार्यकारी व सारपंच ग्रामस्थ आपले पुढाव्य अधिनियम करत असुन या पुढेही आपणाकडुन सगळ्याची सेवा पडो अशी श्री. चिंतामणी धर्तरी प्रार्थना करतो.

- आम्ही आपणालाचि अधिनियम करतो कि हि सेवा आपणाकडुन आलीच मिळो. ही विनंती करतो.
- Apcci :- Pawan Sir
- Supervisor :- Sumit Babar
- Driver :- Sagar Shitole
- Opretor :- Sachin Thorat

गाडी क्र.  
MH12PQ4858  
Big Trillo.55

ग्रामपंचायत थैऊर  
ता. हवेली, जि. पुणे.

स्थळ : ग्रामपंचायत थैऊर  
दिनांक : २४/०२/२०२३

प्रदेशिक न्यायसहायक वैज्ञानिक प्रयोगशाला  
REGIONAL FORENSIC SCIENCE LABORATORY  
गृह विभाग, महाराष्ट्र शासन  
HOME DEPARTMENT, MAHARASHTRA STATE,  
दूरध्वनी : ०२०-२५६६५४७७२ फॅक्स : ०२०-२५६६७३२६  
Tel : 020-25667322 Fax : 020-25667321

गणेशखिंड,  
राजभवन समोर,  
पुणे-४११ ००७,  
Ganeshkhind  
Opp. Rajbhavan,  
Pune-411 007.

क्रमांक/No : ५५/२४२३/२५  
दिनांक/Date : ०८/१२/२५

### आभार पत्र

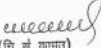
प्रति,

आदर पूनावाला क्लिनिंगसिटी,  
पुणे.

महोदय,

आपणास कळविण्यात खूप आनंद होत आहे की, प्रदेशिक न्यायसहायक वैज्ञानिक प्रयोगशाला, पुणे येथील कचरा उचलण्याचे काम आपल्या संस्थेचे वाहनचालक श्री. जयचंद सोनवणे व ऑपरेटर श्री. विजय बल्लाळ यांचे मार्फत खूप चांगल्या प्रकारे चालू आहे. आपल्या संस्थेच्या गाड्या रोज वेळेवर कचरा घेऊन जातात. यामुळे प्रयोगशालेचा अंतर्गत परिसर स्वच्छ ठेवण्यास आपल्या संस्थेची मदत होते.

आपले हे जनहिताचे काम अस्याच प्रकारे सुकू राहिले, ही विनंती.

  
(वि. सं. दातार)  
उपसहायक न्यायसहायक वैज्ञानिक प्रयोगशाला,  
गृह विभाग, महाराष्ट्र शासन, पुणे-०७



### International Society for Krishna Consciousness (ISKCON)

Founder Acharya : His Divine Grace A.C. Bhaktivedanta Swami Prabhupada  
(Registered under Bombay Public Trust Act, 1950 vide Regn. No. F-21798)

2325

1<sup>st</sup> MAR., 2023

To,  
C.E.O / C.O.O.,  
ADAR POONAWALA CLEAN CITY INSTITUTE,  
A.S.R SERVICES, Pune

Sir,

#### Sub : Letter of Appreciation for dry wastage collection

We at ISKCON NVCC, Pune are extremely delighted with your services of dry waste collection and disposal. Prior to your involvement, dry waste disposal had been a major challenge for us in terms of money, manpower & time. Your co-operation has made it very easy and efficient.

Your services are very consistent. There were no lapses. The staff are very punctual. They are very much extending if there is extra dry waste. We are amazed that you maintain such efficiency and commitment despite being a voluntary organization.

Thanking you,

Yours faithfully,  
  
Ar. Jyoti-Kesling Dept.  
ISKCON NVCC, PUNE  
7507147650

Head Office :  
ISKCON, Hare Krishna Land,  
Juhu, Mumbai - 400 049

Branch :  
ISKCON, S.No.50, Katraj-Kondhwa Road,  
Pune - 411 048. | Mob: 92255 45984  
sevasofticepune@gmail.com www.iskconpune.in

Branch :  
ISKCON, A. Tarapore Road,  
Next to Dastur Bays School, Camp, Pune - 411 001.  
Ph: 020 - 26332328



भारत सरकार  
Government of India  
विधि एवं न्याय मंत्रालय  
Ministry of Law & Justice  
आयकर अपीलार्थी अधिकरण  
Income-Tax Appellate Tribunal

दूरध्वनी  
Phone : 020-2370 4669  
फॅक्स : 020-2694 5390

क्रमांक  
No.

पहिला और दूसरा भाग, महाराष्ट्र जीवन प्राधिकरण भिडिंग,  
प्लॉट नं. १०८ के पास, ४६३ स्टेवेली रोड,  
कैम्प, पुणे - ४११००१.  
1st & 2nd Floor, Maharashtra Jeevan Pradhikaran Bldg.,  
Near St. Mary School, 463 Staveley Road, Camp,  
Pune - 411001.  
E-mail : pune.bench@tat.nic.in  
दिनांक / DATED THE 31.01.2023

To,  
The Chief Executive Office,  
Adar Poonawala Clean City Initiative,  
Pune.

#### Appreciation Letter

Dear Sir,

Income Tax Appellate Tribunal, Pune hereby expresses its deeper gratitude to Mr. Adar Poonawala for his selfless and noble services in keeping the office premises clean and tidy by proper management of filth, waste and garbage.

We are also thankful to your following team members who help us in day to day services in keeping the office premises clean:


1. Mr. Ajay Koli (Supervisor)
2. Mr. Rohan Deshmukh (Driver)
3. Mr. Shubham Katke (Operator)

We appreciate the efforts being taken by your team and look forward for your continued support in future also.

Thanking you.

Yours faithfully,

  
For Assistant Registrar  
आयकर अपीलार्थी अधिकरण  
Income Tax Appellate Tribunal,  
पुणे / Pune



## ग्रामपंचायत लोणी काळभोर

ता. हवेली, जि. पुणे - ४१२ २०१, फोन नं.: ०२०-२६९२२००  
ISO-9001:2015

**सरपंच**  
श्री. माधुरी राजेंद्र काळभोर  
madhurikolbhore77@gmail.com  
Mob.: 7706119999

**उपसरपंच**  
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Mob.: 9764841213

**क्रान्तिकार अर्थिकरी**  
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bjbiravane@gmail.com  
Mob.: 9975418809

दि. २३/०१/२०२३

प्रति,

ए.एस.आर समिती,

आदर पूनावाला क्लीन सिटी.


विषय :- आदर पूनावाला Group चे सर्व कर्मचाऱ्यांचे अभिनंदन...

महोदय,

मि. आपणा सर्वांचे आभार मानले कि, आपल्या आदर पूनावाला ग्रुप तर्फे जे आपण स्वच्छतेचे जे काम करत आहात ते अतिशय अभिमानास्पद आहे. तसेच हे काम आपण सर्वच आगात अतिशय कौतुकास्पद व प्रामाणिकपणे करत आहात.

आपण आमच्या लोणी काळभोर या आगात स्वच्छतेचे काम करीत आहात त्यामुळे येथील दुर्गंधी व घाणीचे साम्राज्य नष्ट होत आहे. त्यामुळे आजाराचा प्रादुर्भाव या आगात कमी होत आहे.


मी आपणा सर्वांचे अभिनंदन करतो हे सेवा आपणाकडून अशीच मिळू अशी विनंती करतो.

  
**सरपंच**  
 ग्रामपंचायत लोणी काळभोर,  
 ता. हवेली, जि. पुणे

www.lonikalbhoregram.com

www.facebook.com/lonikalbhoregram

Email: glonikalbhore@gmail.com



## Anjuman Khairul Islam's POONA COLLEGE OF ARTS, SCIENCE & COMMERCE

1976 - 2020

• Affiliated to Savitribai Phule Pune University: ID No PU/PN/ASC/023/1976  
• UGC - 2(f) & 12 (B) Status • DST - FIST Funded College  
• Government of Maharashtra and Savitribai Phule Pune University Recognized Minority College

**K. B. Hidayatullah Road, Camp, Pune - 411001 (MS) India**  
+91-20-2645 4240 / 2644 6219  
principal@poonacollege.edu.in  
www.poonacollege.edu.in

**Professor Dr. Aftab Anwar Shaikh**  
M.Com, Ph.D (Busi. Admin.)  
PRINCIPAL

+91 98226 21579  
dranwarshaikh@gmail.com

Ref. No.: PC/SC/APCCI Pune/Appreciation/ / 2022-23 Date: 29/03/2023

To,  
The Chief Executive Officer,  
Adar Poonawala Clean City Initiative,  
Pune.

Appreciation Letter

Dear Sir,


AKI'S Poona College of Arts, Science and Commerce, Pune hereby expresses its deepest gratitude to **Mr. Adar Poonawala** for his selfless and noble services in keeping the educational institute premises clean and tidy by proper management of filth, waste and garbage.


We are also thankful to your following team members who help us in day to day services in keeping the college premises clean:

1. Mr. Vishal Pawar (Supervisor)
2. Mr. Rohan Deshmukh (Driver)
3. Mr. Shubham Katke (Operator)

This is undoubtedly a welcome voluntary initiative that would go a long way in realization of Swachh Bharat. We appreciate the efforts being taken by your team and look forward for your continued support in future also.

Thanking you.

  
**Dr. Aftab Anwar Shaikh**  
 Principal  
 PRINCIPAL  
 Poona College of Arts, Science & Commerce  
 Camp, Pune-411001  
 Principal Office

  
Lt Col NS Sandhu, SM  
SSO(Seconded)

स्टेशन कक्ष  
मुख्यालय दक्षिण महाराष्ट्र एवं गोवा सब एरिया  
पिन : ९००४४९  
मार्फत ५६ ए पी ओ  
Station Cell  
HQ Dakshin Maharashtra & Goa Sub Area  
PIN - 900449  
c/o 56 APO

1000/Ofr/Est

CEO  
Adar Poonawala  
(Clean City Initiative)  
Pune

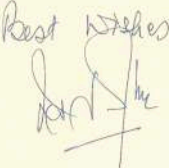
APPRECIATION OF GOOD WORK

1. I would like to place on record the commendable work done by Adar Poonawala Team responsible for Pot Holes Repairs in Pune.

2. The team under the leadership of Mr. Vikas and Mr. Prasenjit has been very forthcoming in assisting the Joint Task Force constituted by the Army authorities for Pot hole repair work being undertaken in the Pune Cantonment limits.

3. This is an epitome of civil-military liaison in real sense toward Nation building. We look forward to enhance such endeavours in future too.

4. I would like to convey my compliments to each person of the team for their dedication and support wish: them all the best for their future endeavours.

  
 Best wishes

## d. Recognition, Awards and Appreciation

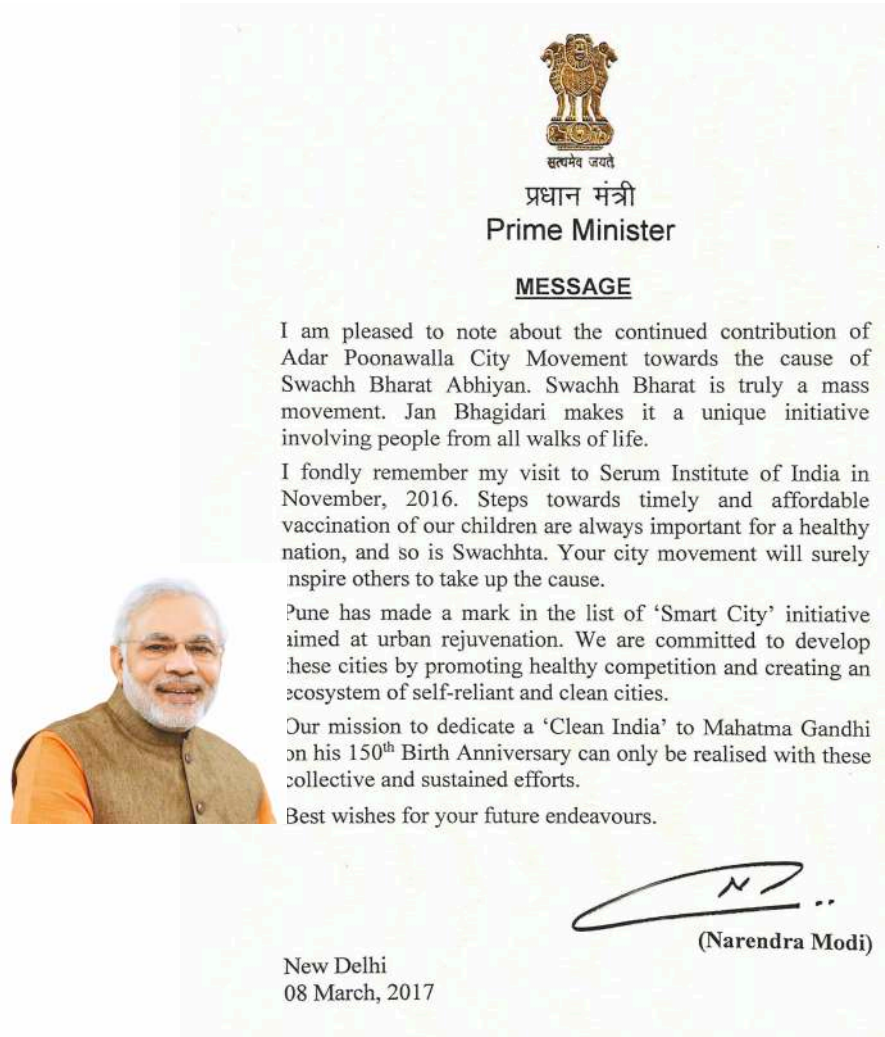


Table: Awards received so far

Sr. No.	Awards Name
1	Prime Minister Letter
2	Pune Running Sport Foundation Award
3	Navabharat Health Care Award
4	(TMC) Top Management Consortium Award
5	Pune Pride 2018 ( By Residency Club)
6	Ministry of Urban development (Swachh Bharat Mission)
7	Smart Cities India Award-2017
8	SKOTCH order of Merit award
9	CSR Health Impact Award (Paras Health Care)
10	ABP News Award
11	CNBC IBLA Award 2018
12	VNRA (Viman Nagar Resident Association) Award
13	PM Nominated Adar Poonawalla As Brand Ambassador for Swachh Bharat Mission
14	MCCIA Award
15	Asia Sustainability Reporting Award (ASRA), 2019
16	Best CSR Impact Award - 2023 (SMX. CSR Leadership)



# Sustainability Strategy

Our Sustainability Strategy serves as the compass guiding the Adar Poonawalla Clean City Initiative (APCCI) towards a more responsible and resilient future. At APCCI, we understand that sustainability is not just an option but an imperative, and it is integrated into every facet of our operations.

**Engaging Stakeholders:** Central to our strategy is the active engagement of stakeholders, including our main donor Mr. Adar C. Poonawalla, citizens, employees (our dedicated Waste Warriors), NGOs, urban local bodies, service providers, public relations, volunteers, educational institutions, Prabhag communities, and the media. Their diverse perspectives and concerns drive our actions, aligning our strategies with their needs and expectations.

**Material Topics:** We've identified material topics through a rigorous process that involves understanding the concerns of our stakeholders. These topics range from waste collection, segregation, and disposal to environmental impact, employee care and benefits, community engagement, technological interventions, ethical practices, collaborations, public perception, and more. These areas represent the core of our sustainability efforts.

**Tracking Our Sustainability Commitment:** We are committed to tracking our progress through a set of key performance indicators (KPIs). These KPIs cover areas like cleanliness improvement, daily waste collection, carbon footprint reduction, investment in personal protective equipment, cost-efficiency, stakeholder engagement, and the resolution of waste pickup concerns. Our progress demonstrates our dedication to achieving our sustainability goals.

As we move towards a more sustainable 2023-24, our strategy will continue to revolve around fostering transparency, accountability, and sustainable practices. With a collaborative approach that builds trust and mitigates risks, we are positioned to drive positive social impact, promote sustainability, and enhance our reputation and brand value. We believe that sustainability is the linchpin for our long-term success, and we are committed to making it a reality.





## a. Stakeholder Engagement

For us stakeholder engagement is of paramount importance because it serves as the linchpin for fostering transparency, accountability, and sustainable practices within our organisation. Engaging with stakeholders, whether they are investors, employees, customers, community members, or regulators, is a fundamental aspect of responsible business conduct. It enables us to gather diverse perspectives, identify critical issues, and address concerns proactively. By involving stakeholders in decision-making processes, organisations can better align their strategies with the needs and expectations of their various constituencies. This collaborative approach not only helps build trust and stronger relationships but also mitigates risks, ensures compliance with ethical and legal standards, and ultimately contributes to the long-term success and resilience of the APCCI. Moreover, in an era where social and environmental responsibility is paramount, stakeholder engagement is essential for driving positive social impact, promoting sustainability, and enhancing the overall reputation and brand value of APCCI and is an essential element of the success of this initiative

### Identification of Key Stakeholders:

Stakeholder analysis was conducted to proactively identify and understand the varied needs, expectations, and concerns of our stakeholders. This process helps tailor our strategies, mitigate risks, and enhance engagement, ultimately fostering trust, aligning with ethical standards, and promoting sustainability in our operations.

The stakeholder analysis helped APCCI to identify the key stakeholders based on their influence versus their interest.

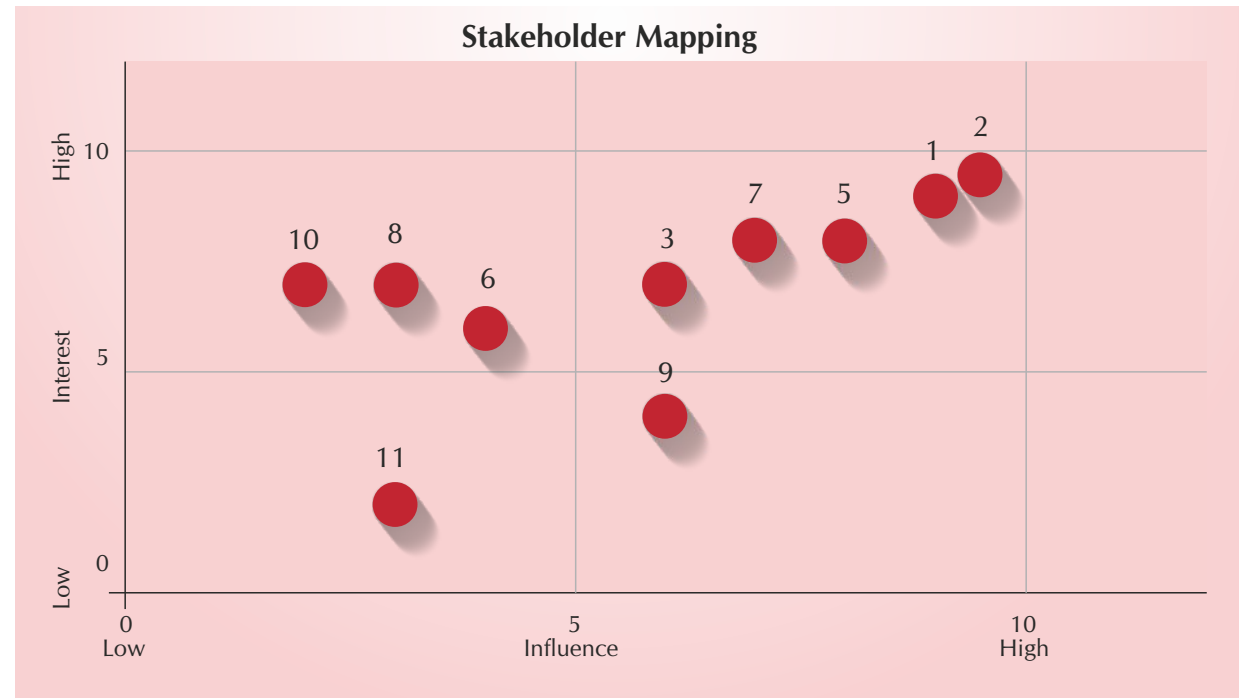


Table: Our Stakeholders &amp; Communication Channels

Code	Stakeholders	Significance to APCCI	Communication Channels	Main Concerned Topics
1	Mr. Adar C. Poonawalla (Main Donor)	Mr. Adar C. Poonawalla is the main donor and visionary behind APCCI. His support is of paramount importance as it provides the financial backbone for the initiative, enabling its operations and expansion.	Updates and reports Meetings	Circular Economy Initiatives Community Wellbeing and Development
2	Citizens	Citizens are at the heart of APCCI's mission. Their active participation, support, and engagement are crucial for the success of waste management initiatives, raising awareness, and fostering a sense of responsibility towards cleanliness.	Take Feedback Communicate waste pickup concerns Volunteering opportunities Awareness Drives	Waste Collection, Segregation, Disposal Community Engagement Environmental Impact Public Perception and Goodwill Community Wellbeing and Development
3	Employees (Waste Warriors & water project employees)	Employees, including Waste Warriors and Water Project employees, are the frontline workers who execute APCCI's initiatives. They play a pivotal role in daily waste collection, management, and community engagement.	Reports Meetings Takeaction on waste pickup concerns Give feedback Work performance audits	Waste Collection, Segregation, Disposal Employee Care & Benefits Technological Interventions Environmental Impact
4	Non Governmental Organisation (Janwani, Poornam Ecovision Foundation, Swachh)	These NGOs bring expertise, resources, and a network of volunteers to the table. Their partnership bolsters APCCI's reach, effectiveness, and community engagement.	Meetings Reports Audits	Ethical Practices and Governance Collaborations and Partnerships Environmental Impact Community Wellbeing and Development
5	Urban Local Bodies (PMC, BMCC, PCB, KCB and 4 Gram Panchayats)	Collaboration with urban local bodies and gram panchayats ensures the alignment of APCCI's initiatives with government policies and regulations, facilitating the implementation of waste management strategies along with provision of transfer stations.	Meetings Reports	Waste Collection, Segregation, Disposal Collaborations and Partnerships Environmental Impact Community Wellbeing and Development

Code	Stakeholders	Significance to APCCI	Communication Channels	Main Concerned Topics
6	Service providers (Bharat Petroleum, Mtech (Tata), Pune Enviro, Change22 Infotech, Repose, Sumit Facility Ltd, ASR Services)	These service providers offer essential support, technology, and solutions to enhance waste management efficiency and sustainability. Their contributions optimise the mission's impact.	Daily meetings Weekly reviews Audits	Waste Collection, Segregation, Disposal Technological Interventions
7	Public Relations	Effective public relations help in building awareness, maintaining a positive image, and mobilising public support. PR plays a critical role in conveying APCCI's message and fostering trust.	Meetings Take Feedback Address waste pickup concerns	Collaborations and Partnerships Environmental Impact Ethical Practices and Governance Public Perception and Goodwill
8	Volunteers	Volunteers bring a grassroots perspective and a pool of willing hands to assist in clean-up drives, awareness campaigns, and various community engagement activities, extending the mission's reach.	Engagement meetings Drives	Waste Collection, Segregation, Disposal Community Engagement
9	Educational Institutes	Educational institutes are key partners for creating awareness among students and future generations. They serve as platforms for educational programs, workshops, and awareness campaigns	Monthly meetings	Community Engagement Community Wellbeing and Development
10	Prabhag communities	Community involvement at the prabhag level is essential for localised solutions and the active participation of residents in waste management practices. Their support is vital in maintaining clean localities.	Monthly meetings	Waste Collection, Segregation, Disposal Community Engagement
11	Media	Media coverage and partnerships help in spreading the mission's message, sharing success stories, and garnering public support. Media plays a role in creating awareness and holding APCCI accountable.	Weekly updates	Public Perception and Goodwill



Key stakeholders are those with high interest and influence:

Priority	Code	Key Stakeholders
1	2	Citizens
2	1	Main Donor
3	7	PR–Public Relations
4	5	ULB–PMC/BMMC/PCB/KCB and 4 no. of Gram Panchayats
5	3	Employees (Waste warriors)

1. As this initiative is for citizens, they top the list as stakeholders.
2. Mr. Adar C. Poonawalla has pledged ₹100 crore during the first year and continues to pledge further during progressive years for APCCI. APCCI would not have existed without his vision and support.
3. Public representatives help to smoothen the functioning of the initiative.
4. ULBs work on many fronts such as waste collection at transfer stations and route planning.
5. APCCI Employees are the backbone of these services.





## b. Material Topics

The initiative followed a 5-step process in detail to determine the materiality of issues:

1. Identifying material topics within each activity
2. Engaging with prioritised external as well as internal stakeholders relevant to the activities such as citizens, ULBs and donor
3. Prioritising and establishing correlation of material topics on 'Stakeholder Concern' and 'Organisation's Impact/Importance'
4. Aligning the issue with the APCCI vision, charting a sustainability agenda and actionable milestones
5. Appointing executives responsible for the mitigation of identified topics and engaging cross-functional teams to deliver solutions and implementation.

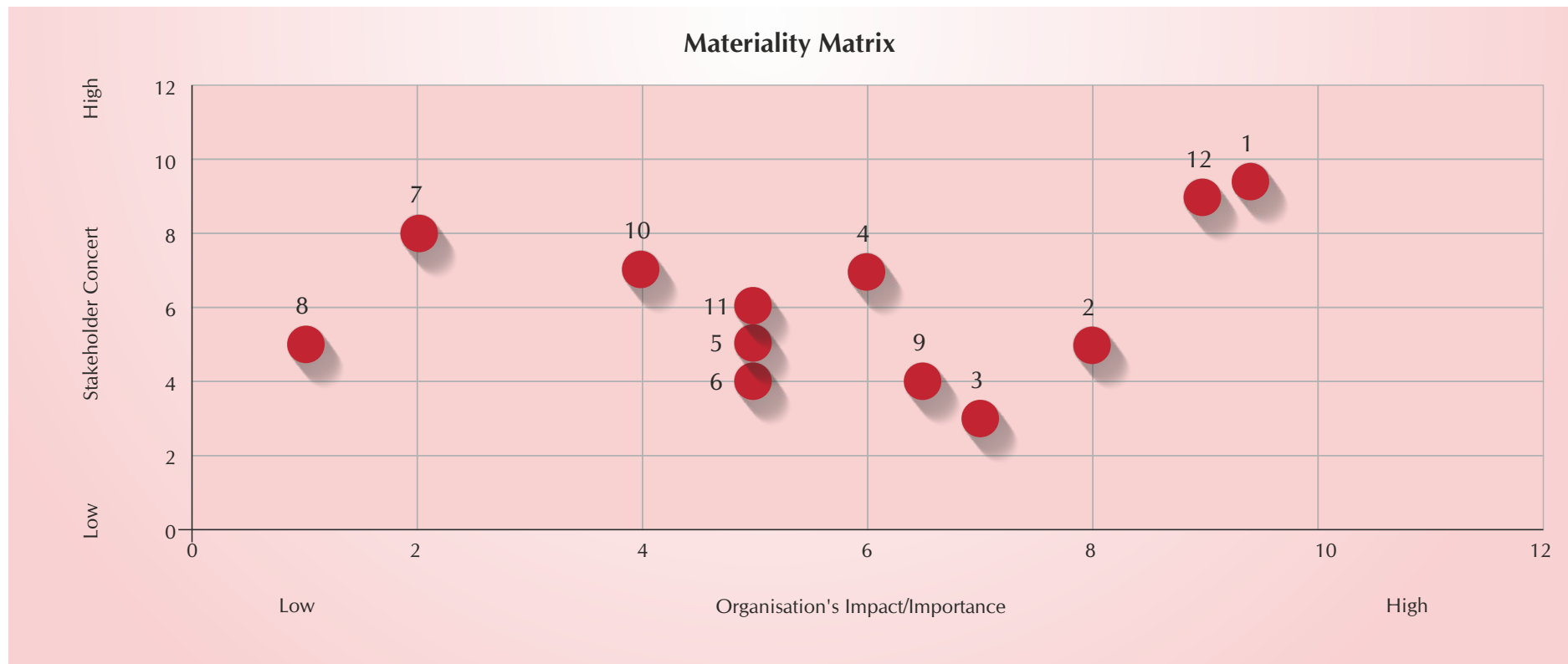


Figure 3: Materiality assessment

Sr No	Materiality	Organisation Impact	Stakeholder Concern
1	Waste Collection, Segregation, Disposal	This aspect reflects the organisation's ability to efficiently manage waste, reduce environmental pollution, and maintain clean public spaces.	Citizens and local authorities are concerned about the proper handling and disposal of waste to ensure public health and environmental protection.
2	Environmental Impact:	Implementing environmentally sustainable practices reduces the organisation's carbon footprint and promotes long-term ecological health.	Citizens, NGOs, and regulatory bodies are concerned about the organisation's impact on the environment, including air and water quality, and natural resource conservation.
3	Employee Care & Benefits	Providing a safe and supportive work environment enhances employee satisfaction, productivity, and retention.	Employees and their representatives are concerned about fair treatment, safety, job security, and benefits.
4	Community Engagement:	Community engagement assesses the organisation's involvement in local communities, its contributions to community well-being, and its efforts to create positive social change.	Citizens, employees, volunteers, educational institutions, and community groups are concerned about active engagement, social development, and inclusive practices.
5	Technological Interventions	Implementing advanced technologies improves operational efficiency, reduces resource consumption, and enhances waste management processes.	Employees, service providers, and capacity-building partners are concerned about adopting and optimising technology for more effective waste management.
6	Ethical Practices and Governance:	Adhering to ethical standards and good governance practices establishes trust, integrity, and transparency within and outside the organisation.	Employees, NGOs, and the public are concerned about ethical behaviour, corporate responsibility, and accountability.
7	Collaborations and Partnerships:	Strategic collaborations expand resources, expertise, and reach, enabling the organisation to achieve more significant and sustainable impacts.	NGOs, urban local bodies and service providers are concerned about effective collaboration for implementing waste management strategies.
8	Public Perception and Goodwill:	Positive public perception and goodwill enhance brand reputation, customer loyalty, and stakeholder support.	Citizens, NGOs, and the media are concerned about maintaining a positive image, trust, and a strong reputation.
9	Circular Economy Initiatives:	Circular economy initiatives focus on the organisation's efforts to reduce waste, promote recycling, and create a sustainable, closed-loop system.	Citizens, NGOs, and regulatory bodies are concerned about the organisation's commitment to circular economy principles and its contribution to reducing environmental impact.
10	Local Community Development:	Local community development evaluates the organisation's role in improving the well-being of the communities where it operates.	Community groups and educational institutions are concerned about initiatives that enhance local community development.
11	Training and Capacity Building:	Providing training and capacity-building opportunities enhances employee skills, productivity, and overall organisational effectiveness.	Employees and capacity-building partners are concerned about skill development and capacity building for effective waste management.
12	Community Wellbeing and Development	Community wellbeing and development focus on the organisation's role in enhancing the overall quality of life in the communities it serves.	Citizens, employees, and community groups are concerned about initiatives that contribute to community well-being and development.

## c. Tracking Our Sustainability Commitment

Sr.No.	Sustainability KPIs	Units of Measurement	2018-19 (Baseline)	2020-21	2021-22	2022-23
1	Improvement in the cleanliness of the city's streets compared to the baseline year	Factor (street kilometres cleaned per number of machines on the road)	23.6	25.53	27.36	27.26
2	Total Daily Waste collection	Tons/Day	Not Calculated	145	174	130
3	Carbon footprint per kilometre	Annual kgCO <sub>2</sub> per kilometre	0.328 kgCO <sub>2</sub> per kilometre	0.223 kgCO <sub>2</sub> per kilometre	0.213 kgCO <sub>2</sub> per kilometre	0.215 kgCO <sub>2</sub> per kilometre
4	Investment in Personal Protective Equipment (PPE)	Annual Investment for PPE in ₹ per waste warrior	2387	4758	2712	2188
5	The economy of street waste cleaning	Daily costs in per kilometre	75.5	90.3	74.9	79.8
6	Strengthening interactions on sustainability for stakeholders (employees, ULBs, NGOs/Service providers, etc.)	Person-hours per year invested by APCCI staff for key stakeholder	3052	3133	3282	3628
7	Strengthening social capital (schools, citizens) for a healthy environment and holistic waste management	Person-hours per year invested by APCCI staff	441	345	361	412
8	Response to waste pickup concerns received through APCCI app resolved by waste warriors	The ratio of number of waste pickup concerns received to be resolved	1:1	1:1	1:1	1:1

## d. Towards A More Sustainable 2023-24

### Social Sustainability:

- Continued Physiotherapy Services: Extend and enhance the provision of physiotherapy services for our dedicated Waste Warriors to address the physical strains associated with waste collection and segregation, ensuring their well-being remains a top priority.
- Holistic Well-being Support: Augment our commitment to the overall well-being of our Waste Warriors by introducing counselling services, focusing on mental health and psychological support to ensure their holistic welfare.

### Environmental Sustainability:

- Expanded Vaari Trail Program: Building on the success of the previous year, expand the coverage and impact of the Vaari trail program for waste collection and segregation, ensuring more areas benefit from efficient waste management practices.
- Increased Volunteer Engagement: Continue to engage and

mobilise more volunteers in the Vaari trail program, creating a wider community of individuals actively participating in environmental sustainability efforts.

- Enhanced Water Purification: Strengthen the water purification program by increasing its reach and distribution to the local community, ensuring a larger population gains access to clean and safe drinking water.
- E-Waste Collection Accessibility: Amplify the reach of our e-waste collection service in collaboration with the Poornam Ecovision Foundation, making it more accessible through initiatives like door-to-door collections.

### Governance:

- Sustainability-Driven Uniforms: Embark on a unique sustainability journey by planning to process plastic waste into yarn, which will be used to create our own uniforms. This initiative not only demonstrates our commitment to sustainability but also showcases a practical application of recycling and upcycling.





# Sustainability Governance

## a. Our Ambitions

At the Adar Poonawalla Clean City Initiative (APCCI), we recognize that Environmental, Social, and Governance (ESG) principles are not just a framework, but a fundamental compass guiding our journey towards a sustainable and responsible future. In the fiscal year 2022-23, we reaffirm our commitment to robust ESG practices, embedding them into the very fabric of our organisation.

Our ambitions in sustainability governance of ESG are outlined below:

**Environmental Stewardship:** We are resolute in our ambition to minimise environmental impact. Through rigorous measures, we aim to reduce our carbon footprint, conserve resources, and promote eco-friendly practices. This includes a continued focus on expanding our electric vehicle fleet and exploring innovative technologies for sustainable waste management.

**Social Impact and Community Engagement:** Our commitment to social responsibility extends beyond our operations. We aspire to positively impact the communities we serve. By engaging with stakeholders, including non-governmental organisations (NGOs), citizen groups, and Urban Local Bodies (ULBs), we aim to foster inclusive growth, empower local communities, and enhance the overall quality of life.

**Diverse and Inclusive Workforce:** We are dedicated to building a diverse and inclusive workforce that reflects the communities we serve. Our ambition is to create an environment where every team member feels valued, respected, and empowered to contribute their unique skills and perspectives towards our shared mission.

**Ethical Business Conduct:** Integrity and transparency are the cornerstones of our governance model. We hold ourselves to the highest ethical standards, ensuring that our actions are guided solely by the best interests of our mission. This commitment to ethical conduct permeates every aspect of our operations and decision-making processes.

**Safety and Well-being of Workforce:** The well-being of our team, affectionately known as "Waste Warriors," is of paramount importance. We aim to maintain a safe working environment through the promotion of protective gear and rigorous incident reporting. Our ambition is to foster a culture of trust and pride among our team members, enabling them to perform their duties effectively and with confidence.

**Continuous Improvement and Innovation:** We are driven by a relentless pursuit of excellence. Our ambition is to continuously refine our waste management strategies, leverage cutting-edge technology, and implement preventive maintenance practices. By adhering to Best Operating Practices (BOPs), we aim to enhance operational efficiency and provide superior service to our customers and stakeholders.

**Transparent Governance and Accountability:** Transparency is the bedrock of our governance model. We aspire to maintain high standards of governance and accountability at all levels of the organisation. Our ambition is to uphold the trust placed in us by our stakeholders, ensuring that our actions align with our stated ESG objectives.

**Long-term Value Creation:** Our ambitions in sustainability governance of ESG are driven by a commitment to long-term value creation. We believe that by aligning our business practices with ESG principles, we not only contribute to a cleaner and healthier environment but also secure the well-being and prosperity of future generations.

In pursuit of these ambitions, we stand firm in our belief that sustainable business practices are not just a responsibility, but a powerful catalyst for positive change. Through unwavering dedication and collaborative efforts, we aim to leave a lasting legacy of environmental stewardship, social impact, and ethical governance for generations to come.



## b. Governance and Business Conduct

Within the Adar Poonawalla Clean City Initiative (APCCI) framework, the strategic dimensions of governance and business conduct emerge as pivotal forces that drive our organisational compass. This section delves into the core principles that have consistently shaped our identity—integrity, transparency, and ethical business practices that underpin APCCI's identity in the fiscal year 2022-23.

### i. Governance and Ethics

The Adar Poonawalla Clean City Initiative (APCCI) maintains high standards of governance and ethics. Our CEO and senior managers lead the way in promoting transparent and ethical business practices.

The CEO plays a crucial role in steering APCCI toward a sustainable future. The upper management proactively introduces innovative

waste management strategies and expertise that align with the organisation's mission. Authorities work closely with Urban Local Bodies (ULBs) and other stakeholders to ensure strict adherence to governance standards.

Throughout the year, APCCI's senior management team remains committed to the long-term interests of stakeholders by continuously refining our strategic approach to provide greater community and environmental value. The team's dedication is evaluated based on factors such as personal and professional integrity, skills, experience, and sound judgement, all of which contribute to the organisation's overall success. Additionally, we have expanded our collaboration with non-governmental organisations (NGOs), citizen groups, and ULB officials in the current year. This collaboration enriches our perspective and strengthens our commitment to effective governance.



## Functional structure

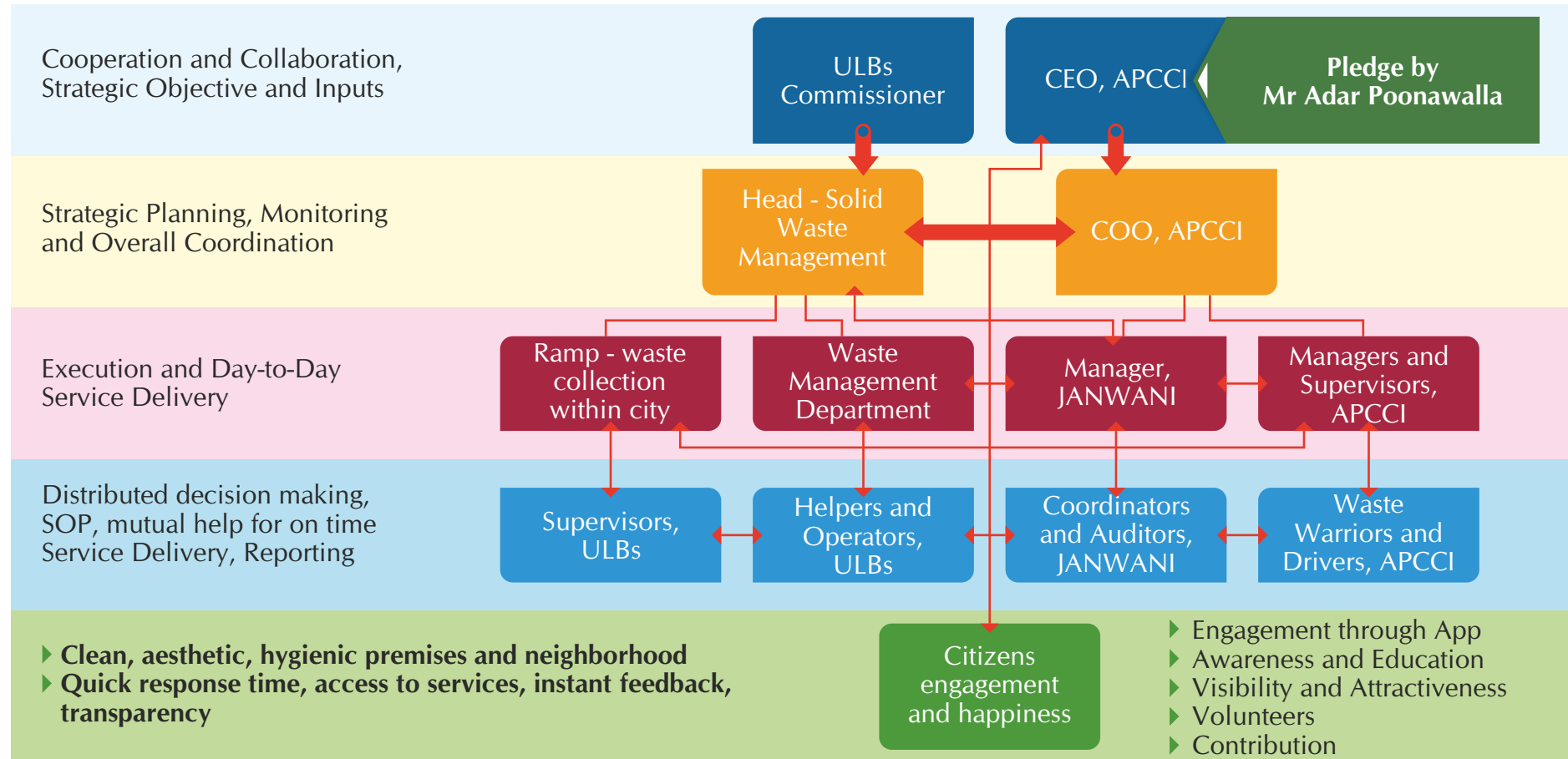


Figure 3: APCCI's Functional Structure







## ii. Code of Ethics

- **Maintain High Integrity:** At APCCI, we hold ourselves to the highest standards of integrity. In 2022-23, we continue our firm commitment to ethical conduct by rejecting any form of gifts, whether in cash or kind. This practice ensures that our actions are guided solely by our mission's best interests, free from any potential bias.
- **Adhere to Standard Operating Procedure (SOP):** This year, as in the past, we emphasise the importance of adhering to our well-established Standard Operating Procedures (SOP). These guidelines are the backbone of our operations, ensuring consistency, efficiency, and accountability in all our activities.
- **Safety First:** The safety of our personnel remains paramount. To this end, we actively promote the use of protective gear to safeguard our team members while they carry out their duties. Our commitment to safety has been reinforced throughout 2022-23, minimising risks and enhancing the well-being of our workforce.
- **Fostering a Sense of Trust and Pride:** Our employees are the heart of APCCI, and we strive to foster a strong sense of trust and pride among them, affectionately referring to them as "Waste Warriors." This year, our efforts to instil a sense of purpose and belonging among our team members have continued, motivating them to give their best in our mission of cleaner streets and a healthier environment.
- **Machine Maintenance:** We recognize the pivotal role that our machinery plays in achieving our objectives. In 2022-23, we remain committed to proper and regular equipment maintenance. This dedication ensures that our machines function smoothly and efficiently, allowing us to meet our waste management goals effectively.
- **Incident Reporting:** APCCI's commitment to safety and transparency includes our policy to report or escalate any

severe incidents to higher authorities. We have continued to reinforce this practice, ensuring that all incidents, no matter how small, are documented and addressed promptly to maintain a safe working environment.

### iii. Best Operating Procedures

Best Operating Practices (BOPs) are crucial in refining procedures and safeguarding the business. In the years 2022-23, we are committed to improving these practices. They are based on transparent processes, continuous employee development, using the latest technology, preventive maintenance strategies, and following industry standards. Organisations can improve their operations and satisfy their customers and stakeholders by sticking to these optimal practices.

We have established a careful set of Best Operating Practices (BOPs) to collect and transport waste efficiently and safely. These practices cover daily operations, handling, and maintenance. This year, 589 of our dedicated "Waste Warriors" underwent an impressive 302 hours of monthly training, showing our unwavering commitment to improving their skills and knowledge.

We also strive for excellence in keeping our facilities clean and maintaining our fleet. We have a weekly maintenance schedule, effective housekeeping techniques, and regular fleet servicing. These practices help us extend the life of our equipment and ensure optimal performance.

#### **Each BOP includes the following vital elements:**

**Technical Proficiency:** We have a deep understanding of our fleet machinery and get it from trusted suppliers.

**Road Safety:** Safety is a priority. Our BOPs include strict safety protocols to ensure safe driving practices and protect our staff and the public.

**Efficient Machinery Usage:** We use our fleet machines efficiently and safely, as defined in our BOPs, helping us be more productive and prolong the life of our equipment.

**Efficient Waste Management:** Our BOPs integrate detailed waste collection and cleaning procedures. These practices promote efficient and effective waste sorting, disposal, and recycling.

**Supervision Standards:** We have strict criteria for supervision to maintain high quality. Regular oversight and quality checks are crucial to ensure adherence to guidelines and provide superior service.

**Safe Fleet Parking:** Proper parking for our fleet is essential. Our BOPs include guidelines for secure parking that consider visibility, accessibility, and regulatory compliance.

**Continuous Auditing:** We are committed to improving. Our BOPs require regular weekly audits to review and enhance the efficiency of our waste collection and transportation procedures, which demonstrates our dedication to maintaining industry-leading standards.

Following these comprehensive Best Operating Practices is at the core of our commitment to safety, efficiency, and environmental responsibility in waste management. This dedication benefits our customers and stakeholders and helps reduce our environmental impact, bringing us closer to a cleaner and more sustainable future.



# Enhancing Urban Sustainability Through Our Services

## a. Crisis and Opportunity: The Imperative for Waste Management Services

In an era marked by a surging global waste generation crisis, our world faces a formidable challenge. The steady increase in municipal solid waste production, driven by factors such as population growth, urbanisation, economic development, and shifting consumption patterns, portends a future burdened by escalating environmental and health risks. Against this backdrop, the city of Pune, with its unique characteristics and pressing concerns, stands as a microcosm of this global issue. As Pune grapples with the generation of 1900 tons of waste daily and a per capita waste generation rate of 454.62 grams<sup>1</sup>, it becomes evident that the urgency of effective waste management and disposal services cannot be overstated.

In response to this mounting challenge, the Adar Poonawalla Clean City Initiatives (APCCI) has embarked on a transformative journey to address Pune's waste management dilemmas. With a commitment to environmental stewardship, public well-being, and sound governance, APCCI's holistic approach encompasses not only the efficient collection and disposal of waste but also the eradication of chronic waste spots that plague the city's streets. Through expert-driven eco-friendly practices, tailored solutions, and active community involvement, APCCI strives to create a cleaner and healthier living environment for Pune's residents.

Furthermore, APCCI's innovative waste collection strategies, exemplified by a fleet of dedicated "waste warriors," employ modern technologies and community engagement to ensure visibly cleaner streets. By Optimising routes, encouraging citizen involvement, and transitioning to eco-friendly and alternative fuel vehicles, APCCI aims to strike a balance between operational efficiency and environmental responsibility.

This commitment to responsible waste management is underscored by significant investments in fleet assets and a comprehensive approach to economic sustainability. The financial support required to operate and maintain this ambitious project is sourced from the dedicated pledge of Mr. Poonawalla, ensuring that the city's cleanliness remains a top priority.

In addition to the core waste management efforts, APCCI has undertaken the critical task of addressing electronic waste through its Door-to-Door waste collection project. By efficiently collecting, handling, and responsibly disposing of electronic waste, this initiative paves the way for sustainable business practices and environmental stewardship, setting a remarkable example for responsible e-waste management.

APCCI's commitment to reporting and intelligence-driven operations ensures that its services are both precise and continually improved. Through digitalization, real-time tracking, and active communication with citizens, APCCI maintains a strong feedback loop that drives operational enhancements and sound decision-making. By fostering a cleaner, healthier, and more sustainable urban environment, APCCI's efforts in Pune exemplify the transformative power of community involvement and collective action.

## b. Chronic Waste Spots Elimination: A holistic Approach

Our commitment to responsible and sustainable operations extends to addressing the persistent issue of chronic waste spots. This endeavour encompasses three vital dimensions: environmental preservation, public well-being, and sound governance.

- **Environmental Stewardship and Health Implications :** Chronic waste spots can quickly transform into breeding grounds for pests and harmful bacteria, posing environmental and health risks to nearby communities. Our approach aims to offer a sustainable, enduring solution to this issue while upholding environmental responsibility.
- **Expert-Driven Eco-Friendly Practices :** Our team of experts meticulously evaluates these waste spots, employing eco-friendly methodologies that prioritise minimising environmental impact. This approach reflects our broader commitment to eco-conscious operations.
- **Tailored Solutions and Community Involvement :** Collaboration with individuals, communities, and organisations is a cornerstone of our approach. We design customised waste management strategies that meet the specific needs of each group. Our ultimate objective is to efficiently remove chronic waste spots while contributing to cleaner, healthier living environments.
- **Effective Governance in Waste Management :** A lack of an efficient citywide waste collection system often results in waste accumulating as chronic garbage spots on our streets. In response, we've implemented systematic daily cleaning schedules, catalogued waste spots, and assigned them to designated collection vehicles, underscoring our commitment

to responsible governance in waste management.

- **Promoting Behavioural Shifts and Community Engagement :** Simultaneously, we actively engage in awareness campaigns encouraging behavioural changes within our communities. We collaborate with educational institutions, citizen groups, and households through door-to-door initiatives to reduce chronic waste spots gradually.
- **Collaboration Across Stakeholders :** Our holistic approach involves multiple stakeholders, including Urban Local Bodies (ULBs), non-governmental organisations (NGOs), citizen groups, and dedicated volunteers. This multi-stakeholder collaboration enhances the overall impact of our efforts, emphasising our commitment to community involvement and social responsibility.
- **Measurable Progress and Community Impact :** These concerted efforts have successfully eliminated 49 chronic waste spots across the city of Pune. This accomplishment underlines our commitment to fostering a cleaner, healthier, more sustainable urban environment.

APCCI has also made significant progress in waste collection and disposal in Mumbai South G9 ward since the start of their operations. In the year 2020-21, the organisation began running the project on a pilot basis in the city of Mumbai, which was allocated to the BrihanMumbai Municipal Corporation (BMMC). The ward was facing major waste collection and disposal challenges due to its dense population, and generating about 20 tons of waste per day.

From this starting point, APCCI has made considerable progress, collecting and disposing of 180 tons of waste per day in the year



2022-23. This represents a significant growth from the initial collection rate, and shows the organisation's commitment to addressing the waste management challenges in South G9 ward.





## i. Innovative Waste Collection for Cleaner Streets

Our waste collection process is meticulously designed for visibly cleaner streets, incorporating innovative methods like route optimization. Our dedicated "waste warriors" kick-start their day with a 7 a.m. attendance selfie, ensuring a smooth start. Fleet machines undergo rigorous checks and cleaning for peak performance.

At 7:30 a.m., they embark on designated cleaning routes, addressing chronic waste spots with the help of Urban Local Body (ULB) personnel for efficient wet and dry waste segregation. Real-time engagement with citizen concerns through the APCCI app keeps the community informed.

After a successful cleanup, our waste warriors photograph the results and update concerned citizens via SMS. After meeting route targets, vehicles unload waste at transfer stations, maintain data records, and perform inspections. This process aligns with our commitment to environmental responsibility, community engagement, and broader business principles, promoting the synergy between community needs and environmental preservation.

The process is mapped to ensure visible cleanliness on streets by innovative methods such as route optimization and standard operations procedures.





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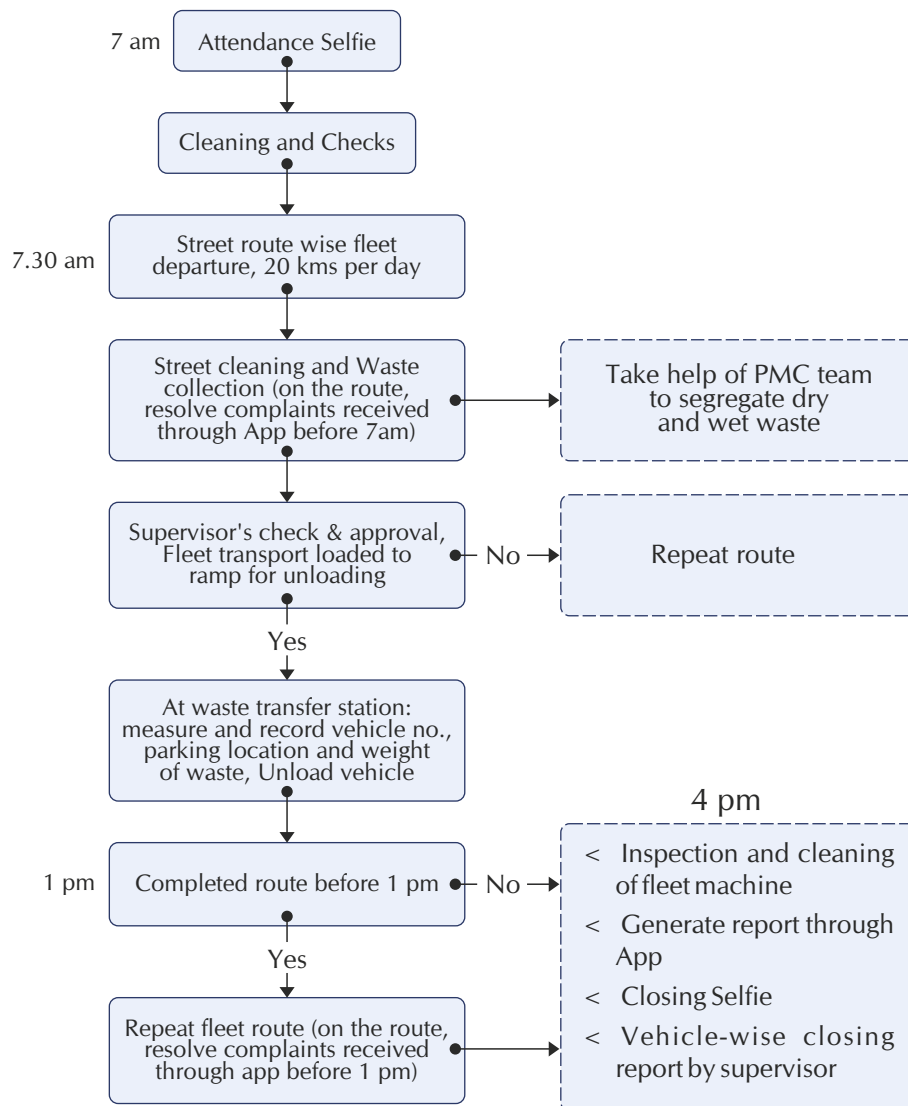


Figure 6: Operational flow for waste pickup, cleaning and waste transport activities

### Reporting and communication

#### Fuel report:

- 2-4pm, twice a week, fueling at specified petrol pump

#### Waste collection report:

- 4-5pm, along with before and after images of street cleaning and resolved cleaning complaints
- Communicate information about resolved complaints to complainant

#### Weekly audit report:

- Evaluation of quality and efficiency of work
- Fleet appearance, compliances
- Personal Protective Equipment
- Findings and feedback to drivers, supervisors and waste warriors

The waste collection process for the "waste warriors" starts with an attendance selfie taken at 7am at the parking location. The fleet machines are checked and cleaned before leaving the parking area.

At 7.30 am, each machine begins cleaning the assigned routes. Streets are cleaned and waste is collected from chronic spots identified on the street. At these locations, ULB personnel assist in the segregation of wet and dry waste as needed.

Concerns or requests raised by citizens on the APCCI app are addressed along the route. After cleaning a spot, the waste warriors take a photograph and send it to the concerned citizen, informing them that the issue has been resolved. The issue is then closed and confirmed via SMS.

Once the route target is achieved, the vehicle goes to a transfer station to unload the waste. Data is recorded in log sheets and the supervisor prepares a closing report after the inspection and cleaning of the fleet machine.

## ii. Number of Fleet Machines and Kilometre Coverage in Pune

In recent years, our organisation has been actively managing its fleet machines to align with our commitment to sustainability and green initiatives. The data presented below illustrates the growth and evolution of our fleet, with a specific focus on efforts to transition to more environmentally friendly and efficient vehicles.

Assets - fleet machines	2018-19	2019-20	2020-21	2021-22	2022-23
Glutton (Electric)	110	118	118	118	118
Big Trilo (Diesel)	46	50	50	50	50
Small Trilo (Diesel)	33	33	33	33	33
Tipper & HYVA (Diesel)	28	39	39	39	39
Road Sweeper (Diesel)	2	2	2	2	2
Electric Auto-Tipper (Electric)	6	6	6	6	5
Compactor	-	4	4	4	4
Jetting Machine	1	-	1	2	2
Potholes Repair Machine	-	1	2	3	3
Water Tanker	-	3	6	6	6
DTDC Vehicle (Electric)	-	-	-	-	3
Tipper (CNG)	-	-	-	-	10
<b>Total</b>	<b>226</b>	<b>256</b>	<b>261</b>	<b>263</b>	<b>275</b>

### Fleet Growth:

- The data highlights that the organisation's fleet has remained relatively constant over the past four years. This stability suggests a conscious approach to fleet management, balancing operational needs with environmental considerations.

### Electric Vehicles (EVs):

- The data highlights that the organisation's fleet has remained relatively constant over the past four years. This stability suggests a conscious approach to fleet management, balancing operational needs with environmental considerations.

### Diesel Vehicles:

- Several categories of diesel vehicles, including Big Trilo, Small Trilo, Tipper & HYVA, and Road Sweeper, have maintained a consistent number of vehicles, potentially indicating a plateau in diesel fleet expansion.

### CNG and Green Fuel Vehicles:

- Our commitment to green initiatives is evident through the introduction of CNG-powered Tipper vehicles in 2022-23, a move that aligns with our focus on reducing carbon emissions.

### Alternative Fuel Vehicles:

- The data reveals a shift away from traditional diesel-powered vehicles in certain categories, with the introduction of Electric Auto-Tippers and DTDC Vehicles (Electric). These additions reflect our dedication to reducing reliance on fossil fuels and embracing alternative energy sources.

### Stable Fleet Machines:

- Certain categories, such as Compactor, Jetting Machine,

Potholes Repair Machine, and Water Tanker, have maintained a relatively stable number of vehicles. This suggests a commitment to balance fleet size with environmental considerations.

In summary, our organisation's fleet management strategy reflects a concerted effort to promote green initiatives and sustainability. The introduction of electric and alternative fuel vehicles, as well as the stabilisation of traditional diesel fleets, signifies our commitment to reducing our environmental impact and advancing our sustainability goals. These efforts are aligned with our mission to prioritise environmental responsibility while maintaining operational efficiency.

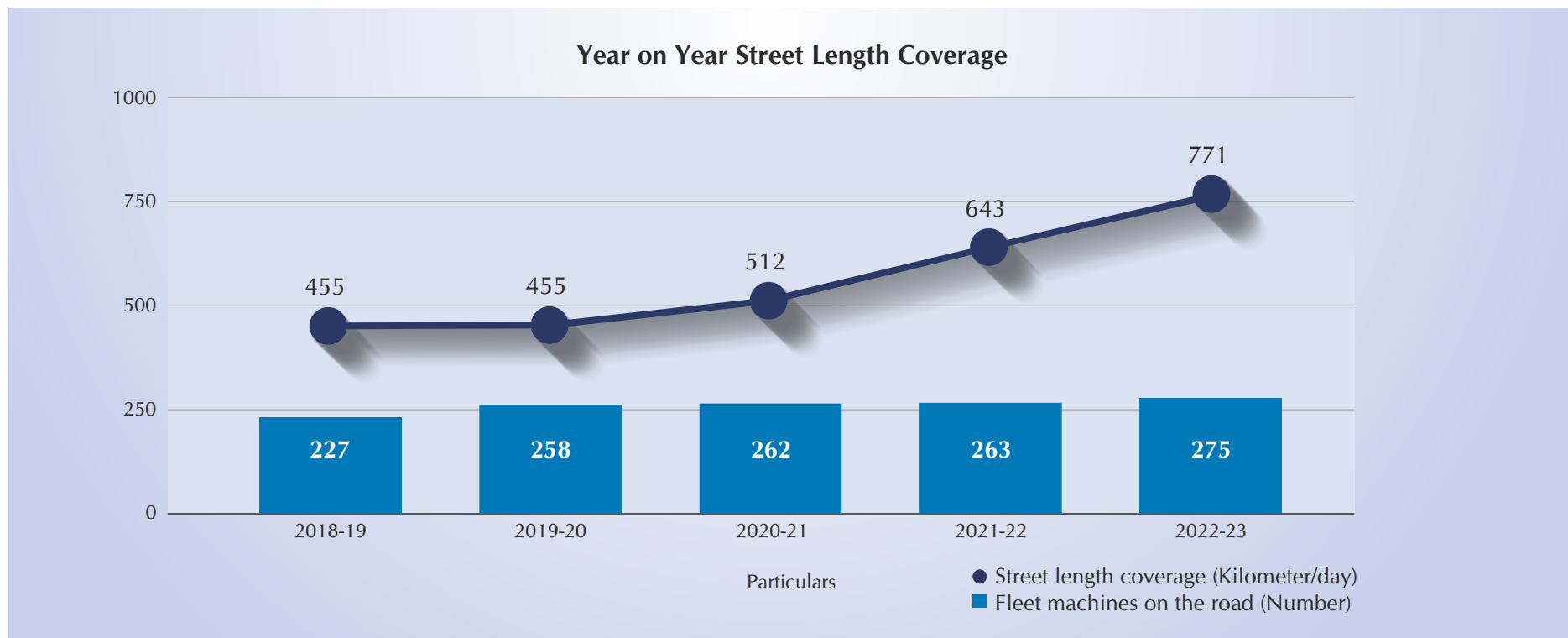
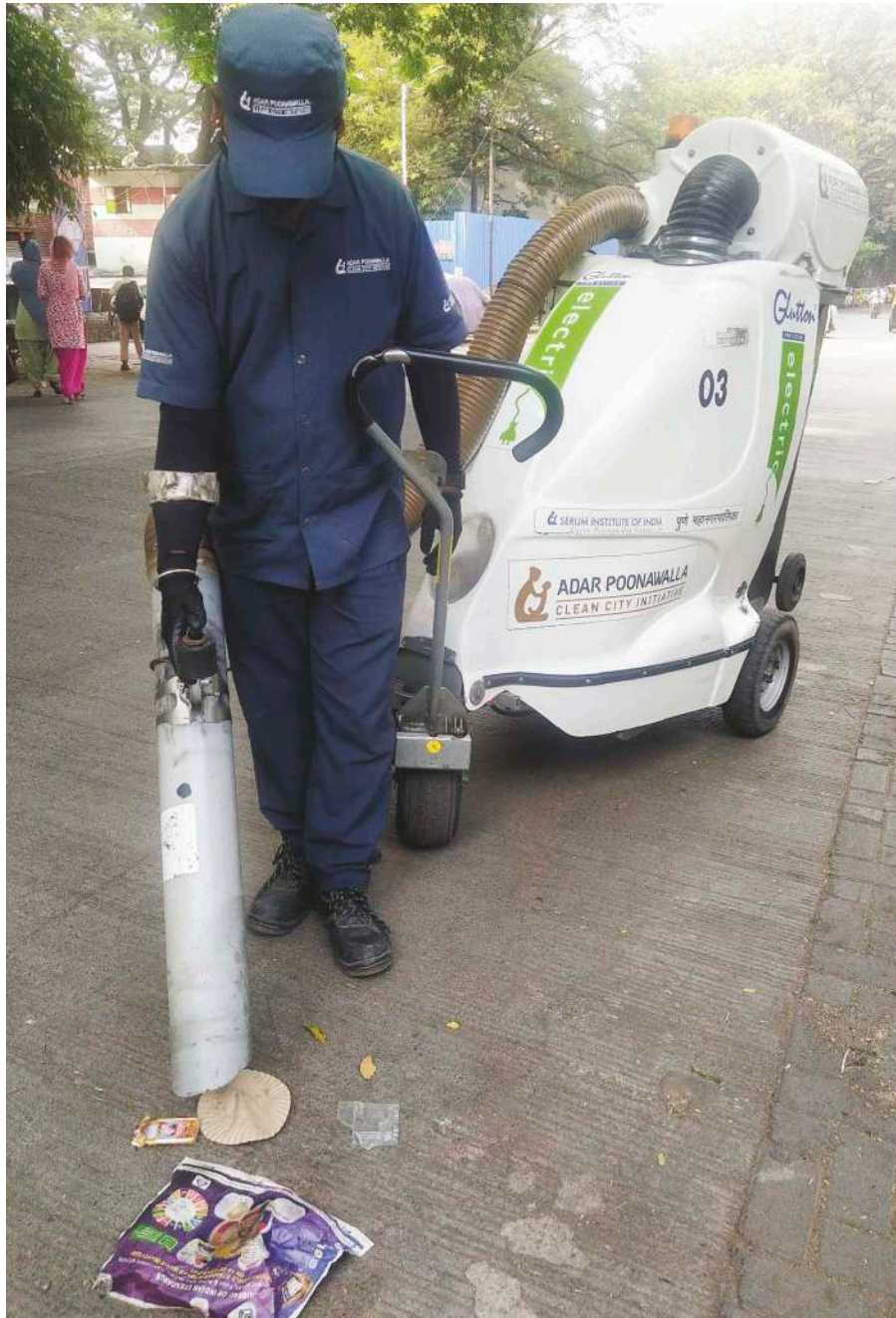


Figure 5: Year-on-Year streets length coverage





Glutton (Electric)



Small Trilo



Big Trilo





Tipper



Electric Auto Tipper



Compactor





Road Sweeper



Pothole Repair Van



Jetting Machine



Water Tanker

## c. Economics of Waste Management

These state-of-the-art fleet machines and IT support for operations has required substantial investments. The following table provides asset-wise capital:

Capital for Assets	All values in ₹lakhs					TOTAL
	2018-19	2019-20	2020-21	2021-22	2022-23	
Glutton (Electric)	180	103	103	-	-	386
Big Trilo (Diesel)	645	78	78	-	-	800
Small Trilo (Diesel)	320	-	-	-	-	320
Tipper (Diesel)	180	-	-	-	-	180
Road Sweeper (Diesel)	154	-	-	-	-	154
Electric Auto Tipper (Electric)	16	-	-	-	-	16
HYVA	-	66	66	-	-	132
Jetting Machine	6	-	-	12	-	18
Potholes Repair Machine	16	-	105	-	-	121
Litterbins	16	17	22	39	-	94
Container	21	-	-	-	10	31
Compactor	63	-	-	-	-	63
Water Tanker	-	28	38	-	-	66
Composting Unit	-	-	-	5	-	5
Water Plant	-	-	-	8	-	8
Water ATM	-	-	-	1	18	19
DTDC Vehicle (Electric)	-	-	-	-	52	52
Tipper (CNG)	-	-	-	-	9	9
Big Trilo Hoppers	-	-	-	-	42	42
<b>Total investment in fleet assets</b>	<b>1617</b>	<b>292</b>	<b>411</b>	<b>64</b>	<b>130</b>	<b>2514</b>

The project has successfully resulted in building a large asset of fleet machines. The current operating expenses are being funded from Mr. Poonawalla's pledge.

APCCI yearly operating expenses to keep the city clean are as follows:

Parameters	All values in ₹lakhs		
	2020-21	2021-22	2022-23
Fuel cost (Diesel)	136.3	180.5	202.6
Fuel cost (Petrol)	2.4	3.5	2.8
Fuel cost (Electricity)	5.7	6.3	8.3
Fuel Cost (CNG)	-	-	5.9
Manpower Expenses	1625.3	1416.9	1597.7
Maintenance Expenses	181.0	209.3	288.0
Admin And Managerial cost	125.0	130.0	137.0
Personal protection equipment (PPE) Cost	25.0	21.0	12.9
<b>Total Cost</b>	<b>2100.6</b>	<b>1967.6</b>	<b>2255.2</b>



## d. Door to Door E-Waste Collection

In keeping with sustainability goals promised in our Sustainability Report 2021-22, in August 2022, a collaborative effort between the APCCI, the Pune Municipal Corporation, and the Poornam Ecovision Foundation set out on an ambitious mission to address the pressing issue of electronic waste management. This visionary initiative, the Door-to-Door waste collection project, was designed to create a viable alternative to non-scientific waste disposal streams and establish a comprehensive system for collecting, handling, and responsible disposal of electronic waste.

The project efficiently used two electric vehicles for waste collection to realise this endeavour. It introduced e-waste awareness programs to educate and sensitise the local community about responsible e-waste disposal. By diligently concentrating on the proper collection, safe handling, and environmentally friendly disposal of electronic waste, this initiative is a compelling model for sustainable business practices and environmental stewardship.

The remarkable data collected during its initial months of operation from August 2022 to March 2023 exemplify the project's success. Over this period, the project recorded 256 successful pickups. These efforts resulted in collecting a substantial 15,699.3 kilograms of electronic waste. Notably, a significant portion of this waste, amounting to 11,378 kilograms, was responsibly disposed of, further emphasising the commitment to proper e-waste management.

The project's achievements showcase its tangible contributions to environmental preservation and sustainable practices and serve as a compelling case study for other regions and organisations aiming to enhance their electronic waste management capabilities. This collaborative endeavour between APCCI, the Pune Municipal Corporation, and the Poornam Ecovision Foundation is a shining example of how coordinated efforts can lead to significant positive impacts in electronic waste management, setting the stage for a

more eco-friendly and responsible future.



## e. Reporting and Intelligence

### **Efficient Reporting for Enhanced Operations:**

The cornerstone of effective operations lies in our meticulous and timely reporting processes. Our reporting cycle initiates with tasks encompassing workforce attendance records, vehicle cleanliness checks, personal protective equipment (PPE) inspections, waste collection monitoring, chronic waste spot assessments, and the resolution of citizen complaints, often received through the APCCI app. Incident reporting and the reporting of maintenance issues, along with data recording at transfer stations, all play pivotal roles in this system. These comprehensive reports are then consolidated and relayed to management for daily review. Notably, the capture of photographs depicting cleaned areas, shared with concerned citizens who raised issues via the app, and the continual update of complaint statuses are integral facets of our reporting process. This commitment to robust documentation ensures precise progress tracking, trend analysis, and operational enhancements, ultimately leading to sound decision-making and more effective waste management practices.

### **Communication and Ongoing Evaluation:**

APCCI maintains an unwavering focus on the refinement of its services, driven by feedback from citizens, dedicated volunteers, and key partners, including Urban Local Bodies (ULBs) and Janwani. A noteworthy component of our approach involves weekly work audits by Janwani to evaluate work quality, fleet machine conditions, and adherence to relevant regulations. While the number of weekly work audits has decreased over the years, it's imperative to recognize that this reduction aligns with APCCI's endeavour to enhance its monitoring system. The organisation has transitioned to a digitised system, striving for heightened efficiency and effectiveness in audit execution. This digital transformation is indicative of our commitment to continual improvement. By harnessing technology and implementing a more streamlined

system, Janwani ensures its audits' quality and steadfast compliance with pertinent regulations.

### **Optimising Operations Through Digitalization:**

Our fleet machines are refuelled twice weekly at partner petrol pumps near our parking sites to maximise fuel efficiency. This practice is meticulously monitored and documented through fuel-filling reports. Our primary operational focus remains on the city's central and arterial roads, closely coordinated with ULBs to prevent any redundancy in cleaning efforts.

We employ advanced technology, such as Google Maps, Geofencing, and other cutting-edge tools, to conduct surveys and pinpoint main roads, chronic waste spots, and areas necessitating attention.

### **GPS-Based Mobile Application for Real-Time Tracking:**

Our GPS-based mobile application is the linchpin for real-time monitoring of on-road fleet machines, significantly enhancing their performance and optimization. The application captures data, including waste warrior attendance, punctual service, and transportation, response to citizen waste pick-up concerns, fuel efficiency, fleet tracking, and route completion. Additionally, customised software collects instances of fleet machine breakdowns, with daily and monthly data summaries meticulously analysed to drive performance improvements.

### **Effective Communication and Feedback Loops:**

The COO of APCCI actively oversees two-way communication between waste warriors and citizens using the application to ensure timely service. Our feedback analysis system is robust and carefully documented, with every citizen's feedback received meticulously evaluated to enhance our services. These feedback records are securely archived for future reference, driving the continual refinement of our systems and ensuring the delivery of exemplary waste management services.



# Environmental Stewardship at APCCI

## a. Our Ambitions

At the Adar Poonawalla Clean City Initiative (APCCI), our ambition in environmental stewardship is rooted in a profound commitment to address pressing environmental challenges, promote sustainability, and drive responsible urban development. We recognize the imperative need to champion ecological responsibility, reduce our carbon footprint, and embrace circular economy principles. Our environmental stewardship ambition revolves around several core pillars:

**Low Carbon Fleet Machines:** APCCI is dedicated to reducing greenhouse gas emissions in its waste management operations. We have invested in low-carbon, technology-based fleet machines and aspire to continue these efforts while exploring options to further reduce our carbon footprint. By integrating electric gluttons and optimising our routes, we have achieved a significant reduction in emissions per kilometre travelled.

**Energy Consumption:** We actively monitor and report on our energy consumption, taking a gate-to-gate approach to account for both direct (scope-1) and indirect (scope-2) emissions. We are committed to reducing our energy consumption and carbon emissions, and our focus on efficient route optimization, low-carbon fleet machines, and reduced emissions per kilometre travelled demonstrates our dedication to this goal.

**Climate Change Resilience:** APCCI acknowledges the impact of climate change on our operations, including irregular waste patterns, increased breakdowns and maintenance costs, and heightened demand for potable drinking water from Water ATMs. We are prepared to adapt to these climate challenges by implementing innovative solutions and ensuring the continued provision of essential services.

**Circular Economy Principles:** Embracing circular economy principles is essential for sustainable waste management. We have initiated garden composting projects to reduce landfill-bound waste, lower methane emissions, and enrich the soil with nutrient-rich compost. Our aim is to expand such initiatives and further integrate circular economy practices into our operations.

**Data-Driven Decision-Making:** APCCI is dedicated to a data-driven approach, continuously monitoring and recording data on routes travelled, fuel consumption, and emissions. This approach allows us to make informed decisions for reducing our environmental impact and enhancing operational efficiency.

Our ambition in environmental stewardship is underpinned by a strong commitment to transparency, sustainability, and continuous improvement. We believe that by proactively addressing environmental challenges and embracing innovative solutions, we can contribute to a cleaner, more sustainable future for the communities we serve. We are dedicated to being responsible stewards of the environment and are constantly seeking new ways to enhance our environmental performance and reduce our ecological footprint.



## b. Our Journey Towards Green Operations

### i. Low carbon fleet machines

Since the planning stage, APCCI emphasises on reducing greenhouse gas emissions in its waste management operations. It invested in low- carbon, technology-based fleet machines. It aspires to continue these efforts along with expanding its activities and will explore options to reduce the carbon footprint further.

#### Energy consumption

The table below illustrates the fleet-machine-wise energy mix and annual fuel consumption

Parameters	Unit	2018-19	2019-20	2020-21	2021-22	2022-23
Fleet machines	Number	227	257	262	263	275
Road length covered	kilometre/day	455	455	512	643	711
Total fleet's travel	kilometre/day	5,353	6226	6664	7197	7497
Electric gluttons travel	kilometre/day	868	931	944	979.2	1128
Diesel fleet machines travel	kilometre/day	4,485	5295	5720	6217.8	6042
Electricity consumed by gluttons	kilowatt-hour/year	58,590	58590	58590	63720	64605
Diesel consumed by diesel fleet machines	Kilolitre/year	190	179	175	180.5	189.3
Petrol consumed for operations	Kilolitre/year	5	3	3	3.5	2.3
CNG consumed for operations	Ton/year	-	-	-	-	6.562

Currently, 275 fleet machines cover 711 kilometres per day. The total distance covered by all fleet machines is 7,497 kilometres per day. The electric glutton machine runs 6.02 kilometres per kilowatt-hour of electricity, and the performance of diesel operated fleet machines is 12.4 kilometres per litre of diesel.



## ii. Carbon Footprint of Fleet Machines

At APCCI, we are fully committed to reducing our carbon emissions footprint, aligning with our mission to address environmental challenges responsibly. Our carbon emissions primarily comprise scope-1 and scope-2 emissions, reflecting our proactive approach to mitigate the environmental impact of our operations.

### Scope-1 Emissions (Direct Emissions):

- **Emissions From Diesel Consumption:** These emissions primarily result from the transportation of waste and water. Over the years, we have continuously optimised our diesel-powered fleet machines to enhance efficiency and reduce carbon emissions.
- **Emissions From Petrol Consumption:** These emissions pertain to the operation of specific machines, such as the jetting machine and pothole repairing machine. Our commitment to sustainability led us to explore low-carbon alternatives, resulting in significant reductions in petrol emissions.
- **Emissions From CNG Consumption:** Although CNG consumption was introduced for the operation of Tipper machines in 2022-23, it has already contributed to emissions reduction by replacing traditional fuels.

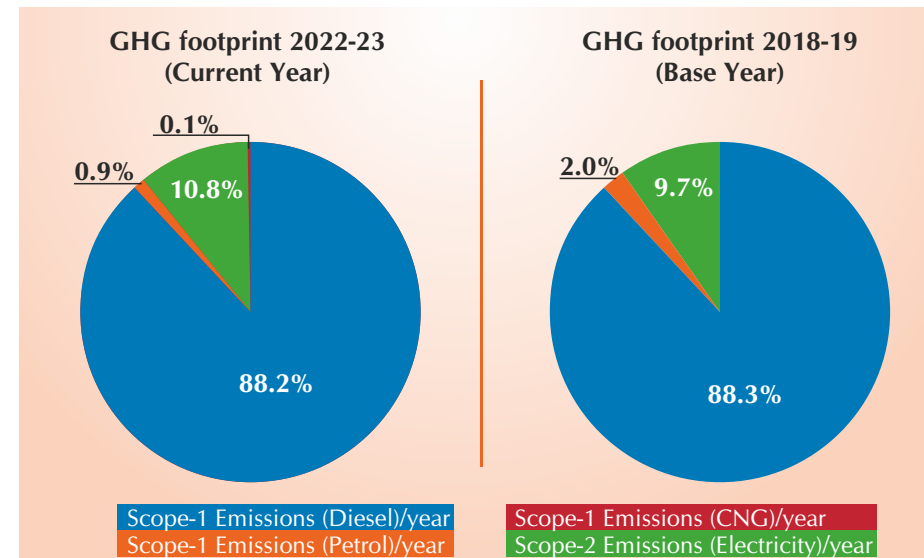
### Scope-2 Emissions (Indirect Emissions):

- **Emissions From Electricity Consumption:** These emissions result from the use of grid electricity for charging our electric gluttons and e-carts. We have made significant strides in optimising our electricity consumption while embracing cleaner sources, contributing to reduced scope-2 emissions.

Table: GHG footprint (MtCO<sub>2</sub> Equivalent)

Emissions	2018-19	2019-20	2020-21	2021-22	2022-23
Scope-1 Emissions (Diesel)/year	521.8	506.7	495.3	487.29	511.11
Scope-1 Emissions (Petrol)/year	12	6	6	8.47	5.5
Scope-1 Emissions (CNG)/year	-	-	-	-	0.02
Scope-2 Emissions (Electricity)/year	57.4	46.8	46.8	62	62.86
<b>TOTAL Emissions/year</b>	<b>591.2</b>	<b>559.6</b>	<b>548.3</b>	<b>557.76</b>	<b>579.49</b>

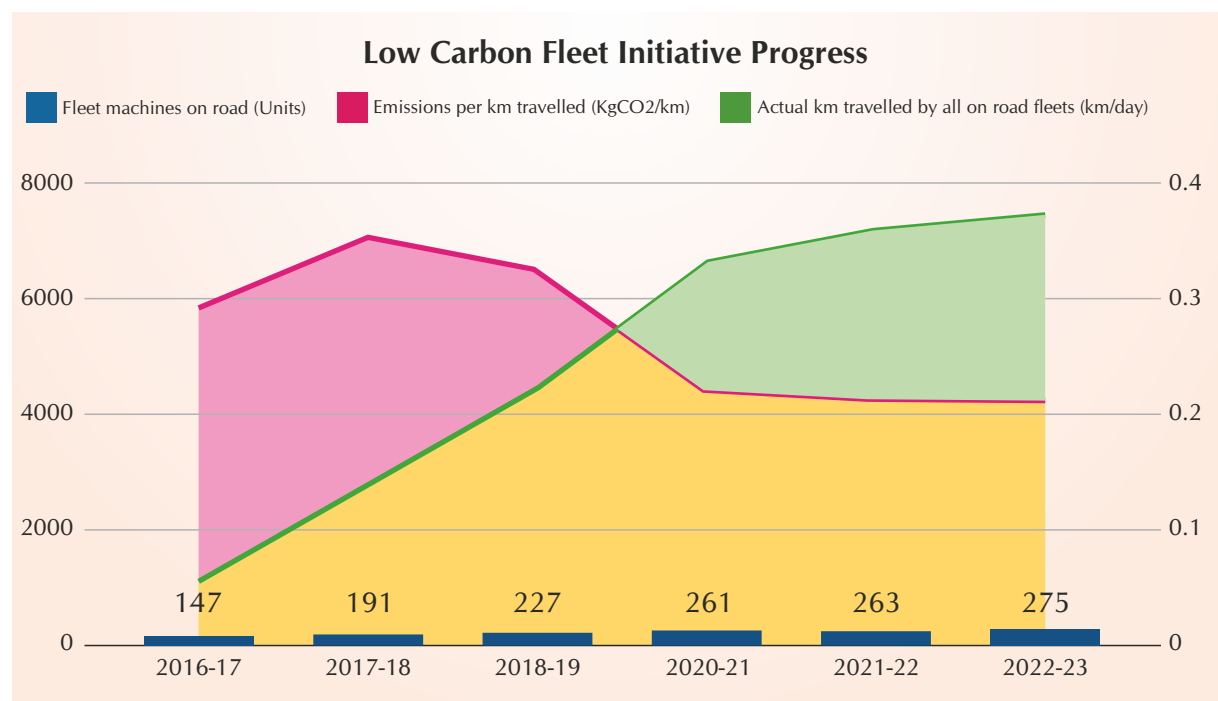
(Scope-3 Emission data is not available)



### iii. Our Effort to Reduce Our Carbon Footprint

Over the years, there has been a significant reduction in emissions per kilometre travelled by the on-road fleets. The initiative to reduce emissions has shown steady progress from the year 2016-17 to 2022-23. Despite an increase in the actual number of kilometres travelled by all on-road fleets, the emissions per kilometre travelled have been consistently reduced. The adoption of more sustainable practices and the use of environmentally-friendly technologies have contributed to this positive trend. Additionally, the number of fleet machines on the road has increased, which could be an indication of the implementation of more effective waste management practices.

Year	2016-17	2017-18	2018-19	2020-21	2021-22	2021-22
Emissions per km travelled (KgCO <sub>2</sub> /km )	0.293	0.355	0.328	0.223	0.215	0.215
Actual km travelled by all on road fleets (km/day)	1176	2820	4515	6664	7197	7497
Fleet machines on road (Units)	147	191	227	261	263	275





## 1. APCCI's Carbon Footprint measuring and Reduction Strategies:

### Continuous Monitoring and Reporting:

At APCCI, we prioritise transparency and accountability in our carbon reduction efforts. We continuously monitor and record data on routes travelled by each fleet and their respective fuel consumption. This data serves as the foundation for our continuous analysis and improvement initiatives.

### Gate-to-Gate Approach:

Our carbon footprint calculations adhere to a gate-to-gate approach, encompassing both direct (scope-1) and indirect (scope-2) emissions. This comprehensive approach enables us to account for the entirety of our emissions and take necessary actions for reduction.

### Reduction Strategies:

Our sustainability goals are an integral part of our operational strategy, adopting a life-cycle approach that evaluates GHG emissions to minimise their impact on climate change. Key reduction strategies include:

- Investment in Low-Carbon Fleet Machines: We actively invest in low-carbon fleet technologies to reduce emissions and improve efficiency.
- Route Optimization: We optimise routes and implement timely waste collection, reducing unnecessary travel and fuel consumption.
- Information Sharing: We enhance operating efficiency by sharing real-time tracking information with drivers and supervisors, enabling informed decisions for emissions reduction.

- Driver Training: Our training programs focus on empowering fleet machine drivers to operate more efficiently, including regulating speed limits and reducing sudden brakes and acceleration.

### Fleet route optimization:

At APCCI, we meticulously fine-tune the routes for our on-road fleet through comprehensive data analysis. This optimization process considers critical factors, including:

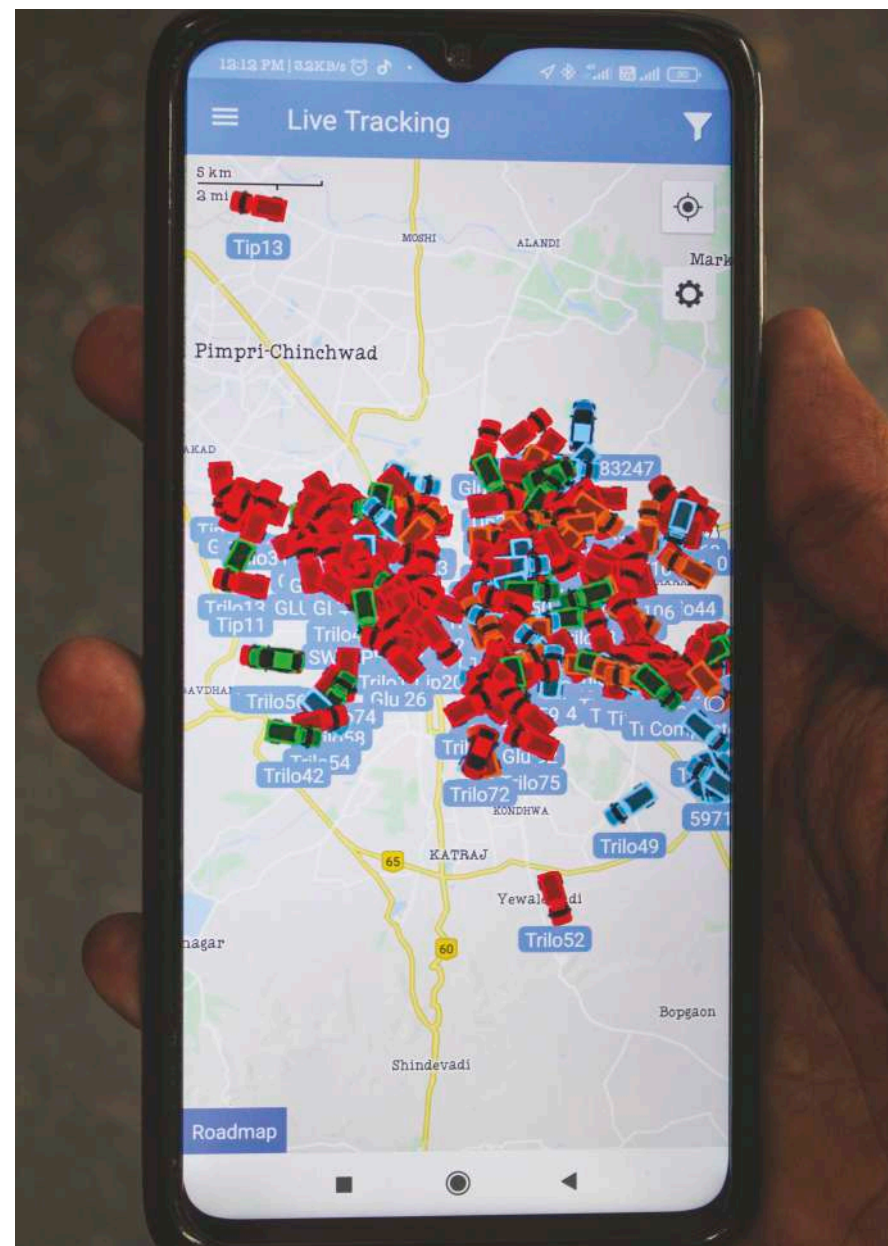
- Fleet Travel Distance and High-Density Waste Areas: We intelligently craft routes by assessing travel distances and pinpointing areas with the highest waste collection spots, which ensures that our fleet efficiently covers the most critical zones.
- Peak and Off-Peak Traffic Insights: We leverage data to gauge varying traffic patterns, distinguishing between peak and non-peak hours. This tailored route planning considers the ebb and flow of traffic, particularly on major roads and commercial areas.
- Optimising Unloading Points: We strategically position unloading points, such as transfer stations or compactors, frequently used by larger vehicles from Urban Local Bodies (ULBs), ensuring the prompt and efficient offloading of waste.
- Efficiency in Time and Motion: Our fleet follows schedules that minimise unproductive hours. We make efficient use of every moment to ensure optimal resource allocation.

This data-driven approach empowers us to make informed decisions regarding resource allocation across various activities, fostering enhanced operational efficiency and waste management practices.

### Impact on Carbon Emissions:

In the reporting year, our carbon footprint illustrates two scenarios: "What would have been" without our low-carbon fleet machines and optimization options, and "Now" with these strategies in place. This proactive approach has resulted in a remarkable 24% reduction in APCCI's carbon emissions, compared to the business-as-usual scenario.

We remain steadfast in our commitment to reducing our carbon footprint and advancing our carbon mission, contributing to a more sustainable and environmentally responsible future.



## c. Case Study: Implementation of Circular Economy Principles in Garden Composting

An effective strategy to mitigate the burden on landfills and combat the global municipal waste crisis is to transition toward a circular economy. This approach centres on minimising waste by enhancing product design, promoting reuse, and expanding recycling efforts. It entails shifting away from single-use plastics in favour of reusable items, introducing composting initiatives, and investing in recycling infrastructure. When implemented by governments, these actions serve to curtail the volume of waste destined for landfills, fostering a more sustainable and environmentally sound future. The APCCI has taken a significant stride in embracing the circular economy concept.

### Garden composting case study:

As an illustrative case study, consider the garden waste composting. Composting is an immensely efficient process characterised by the controlled breakdown of organic matter that stimulates microbial activity and nutrient release. It offers an invaluable means of curtailing greenhouse gas emissions by recycling carbon and nitrogen into the soil rather than releasing them into the atmosphere. Additionally, composting diminishes the quantity of organic waste dispatched to landfills, averting the otherwise associated methane emissions. The nutrients discharged from compost enrich the soil, contributing to increased carbon capture, thus further mitigating greenhouse gas emissions.

The urgency for action became evident to APCCI in July 2021 when confronting the insufficient treatment of garden waste across various Pune regions. In response, APCCI proactively partnered with the Poornam Ecovision Foundation to establish a composting facility, addressing the issue at its source.

The Poornam Ecovision Foundation, as our invaluable knowledge partner, played a pivotal role in successfully realising the Garden Waste Composting project in Pune. Since its inception, the project has been effectively operating in the Pune Municipal region for over a year. With a capacity to handle 300 kg/day, expandable to 500 kg/day, the facility has substantially reduced landfill-bound waste while yielding top-quality compost for soil enrichment. It has seamlessly integrated into the region's overarching waste management strategy and has thus far produced approximately 9 tons of nutrient-rich compost.

### Issue Identified:

- Incomplete treatment of garden waste, leading to landfill disposal and posing environmental hazards and public health risks.

### Solution Provided:

- Establishment of a composting facility with an initial 300 kg/day capacity, expandable to 500 kg/day.

### Outcome:

- Production of up to 100 kg/day of high-quality compost to enrich the soil in neighbouring areas.

### Impact:

- The composting project has become a fundamental component of the region's comprehensive waste management approach.







## d. How Climate Change has affected APCCI

The unpredictable climate patterns have given rise to an irregular mix of wet and dry waste, making the task of street cleaning increasingly complex. This incongruity has led to a surge in chronic waste spots and waste overflow, further exacerbated by inaccessible road conditions.

The effects of climate change have reverberated throughout the waste collection and segregation processes. Managing large volumes of mixed waste resulting from unexpected climatic events has proven to be a formidable challenge. The increase in both organic and inorganic wet waste has extended the resource workload, requiring a high degree of adaptability.

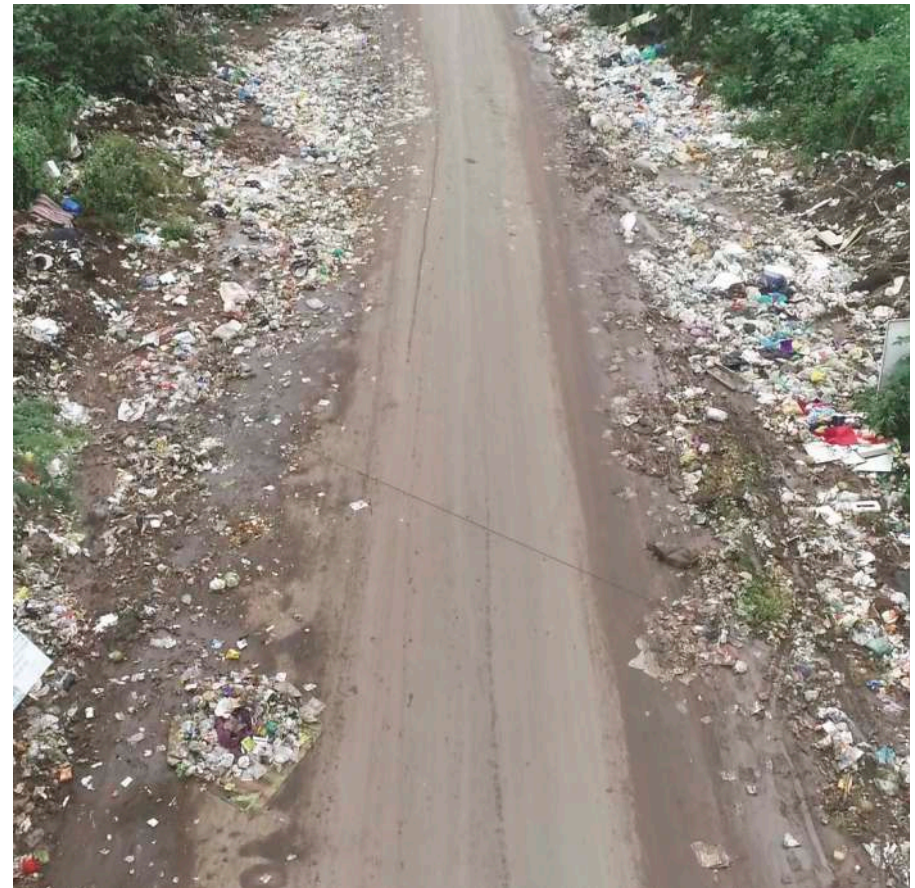
Even the collection fleet vehicles have remained intact, with a likely increase in breakdowns, servicing requirements, and repair costs. Accessibility and maintenance issues at various parking locations have emerged as additional areas of concern.

Personnel engaged in these operations have faced consequential repercussions. Adapting to changing circumstances, including the potential need for revised shift timings to safeguard well-being and reduce fatigue, is a likely necessity. Workers now require supplementary provisions, including water bottles and electrolytes, to contend with the harsh environmental conditions.

Water ATMs, a pivotal component of our services, have experienced a surge in demand for potable drinking water, particularly in remote and isolated locations. However, the supply chain faces potential contamination risks during transportation, necessitating heightened vigilance.

Climate change has ushered in a transformative era for APCCI, profoundly impacting our operations and workforce. The

organisation stands ready to proactively address these challenges and adapt to the evolving environmental landscape, ensuring the continued provision of essential services to our community. Our commitment to responsiveness, innovation, and adaptability remains unwavering amid these challenges, aligning our strategies with the ever-evolving climate realities.



# Social Inclusion

## a. Our Ambitions

At the heart of the Adar Poonawalla Clean City Initiative (APCCI) lies a deep-seated commitment to social inclusion, a cornerstone of our Environmental, Social, and Governance (ESG) framework. We recognize that a thriving, sustainable community is built on the foundation of inclusivity, where every member has equitable access to resources, opportunities, and a clean environment.

### **Empowering Underserved Communities through Clean Water Access**

One of our primary initiatives is the Water Stewardship Project, which focuses on providing safe, potable drinking water to underserved communities in Pune's eastern region. Through the Hub and Spoke model, we've established water purification units equipped with advanced technologies. This ensures that clean water reaches remote areas, positively impacting thousands of families. This project not only addresses a fundamental human need but also empowers local communities by enhancing their quality of life.

### **Transforming Waste Management: A Collective Endeavor**

Our waste management initiatives in Manjari and beyond exemplify our dedication to inclusive practices. By incorporating fringe villages and implementing the SWaCH waste pickers program, we've actively engaged the community in building a cleaner environment. Through meticulous route planning, secondary collection systems, and comprehensive awareness campaigns, we've not only improved waste management but also created employment opportunities for local residents.

### **Engaging Citizens: A Vital Aspect of Social Inclusion**

Citizen outreach forms an integral part of our approach. We believe that the success of our initiatives hinges on the active participation

and acceptance of the community. Through events, educational programs, and feedback mechanisms, we ensure that the voices and concerns of citizens are heard and addressed. This collaborative approach reinforces a sense of ownership and shared responsibility for the environment.

### **Nurturing Responsible Citizens of Tomorrow**

Education is a powerful tool for fostering responsible behaviour. Our educational outreach programs target schools and colleges, aiming to instil a strong sense of environmental responsibility in the younger generation. By providing hands-on learning experiences and covering essential waste management topics, we're shaping future citizens who are not only conscious of their environment but also actively engaged in sustainable practices.

### **Citizen Connect: Technology for Inclusive Engagement**

Through our mobile application, we've harnessed technology to bridge the gap between citizens and our initiatives. This user-friendly platform enables residents to actively participate in our efforts, ensuring that their concerns are heard and addressed. The success of the app reflects the power of technology in creating a more inclusive and transparent environment for all.

### **Our Vision: Inclusive, Sustainable Communities**

In the realm of ESG, our ambition in the social inclusion aspect is clear - we aim to create inclusive, sustainable communities where every member has access to clean water, a clean environment, and opportunities for meaningful participation. By actively engaging with citizens, empowering underserved communities, and nurturing responsible citizens of tomorrow, we're working towards a future where social inclusion is at the core of our collective progress. Together, we're building a cleaner, more equitable world for generations to come.



## b. Local Community Development

### i. Water Stewardship Case study: Water purification and Supply project at Phursungi

In 2017, the Adar Poonawalla Clean City Initiative (APCCI) embarked on a mission to provide safe, potable drinking water to underserved communities in the eastern part of Pune, including areas such as Manjari, Phursungi, Loni, and their surrounding regions. Recognizing the pressing need for clean drinking water, APCCI introduced a pioneering initiative based on the Hub and Spoke model.

The heart of this project, the hub, comprises water purification units equipped with advanced RO+UV+UF technologies, boasting capacities of 1000 LPH, 1000 LPH, and a substantial 4000 LPH. These units play a vital role in treating and storing clean water. To ensure easy access for local residents, the stored water is efficiently distributed to various dispensing points known as Water ATMs, strategically positioned throughout remote areas.

The Water ATM project encompasses three integral segments: the infrastructure comprising the water purification units (Hub), the network of Water ATMs (Spokes), and specialised water tankers for effective delivery. The second segment focuses on the meticulous operation and maintenance (O&M) of the entire system. In the third segment, real-time remote monitoring is implemented, ensuring that the water is consistently available for dispensing.

These Water ATMs, with their standalone, solar-powered, and Internet of Things (IoT) enabled structures anchored on sturdy concrete foundations, have revolutionised access to safe drinking water. Designed to resist vandalism, these ATMs dispense water efficiently via an RFID tag, providing up to 20 litres per household each day.

Transporting purified water from the treatment facility to the Water ATMs is a well-coordinated effort carried out by water tankers. These tankers, with capacities of 2000 litres and 6000 litres, are mounted on reliable TATA 407 and TATA 909 vehicles, respectively. Crafted entirely from SS304 food-grade material, these tankers ensure the safe transportation of pure drinking water.

Through this multifaceted approach, APCCI has achieved an impressive expansion of its Clean Water Supply project. In the fiscal year 2022-23, the daily filtered drinking water capacity increased significantly to 1,05,000 litres, compared to 47,000 litres in the previous year (2021-22). Correspondingly, the number of Water ATMs expanded to 73, including 37 with a 500-litre capacity and 35 with a 1000-litre capacity, and three purification plants (two with 1000 LPH capacity and one with 4000 LPH capacity), the project has significantly grown its reach and positive outcomes. This expansion equates to a higher volume of safe and pure water supplied to an increased number of families, benefiting 6409 households compared to the 3000 families in the preceding year (2021-22).

In addition to its remarkable community impact, this project has also contributed to socio-economic growth by providing employment to 16 dedicated employees in the clean water supply initiative. This expansion has allowed APCCI to provide safe, clean, and pure drinking water to more families, promoting a higher quality of life and fostering economic opportunities for the local workforce.



## ii. Community-Led Environmental Cleanup Efforts: A Case Study of APCCI's Palkhi Route Clean 2022 Campaign

In 2022, the Association of Pune City's Cleanliness Initiatives (APCCI) launched a comprehensive environmental cleanup campaign to promote community-led sustainability initiatives. The focus of this campaign was the cleanup of the Palkhi Route, a historically significant pilgrimage path that draws thousands of devotees each year. APCCI covered two primary Palkhi routes, including the Sant Tukaram Maharaj Palkhi Route from Bhopoli to Yavat, spanning 55 kilometres, and the Sant Dnyaneshwar Maharaj Palkhi Route from Kalas to Saswad, covering a distance of 70 kilometres.

As part of our ongoing commitment to sustainability, we are proud to report the successful achievement of two significant goals as planned for the year 2022-23. Firstly, we were able to increase the coverage of the Vaari trail for waste collection and segregation, expanding our impact in regions that greatly benefit from this vital service. This expansion has contributed to enhanced waste management practices and the promotion of cleaner, healthier communities.

Secondly, our efforts to engage more volunteers in the Vaari trail program were met with great success. The active participation of these dedicated volunteers has not only strengthened our waste management initiatives but has also fostered a sense of community involvement and shared responsibility for environmental well-being. These achievements reflect our unwavering dedication to continuous improvement and sustainable progress, driving us toward a cleaner and more prosperous future for all.

The campaign's primary objective was to ensure a clean and sustainable Palkhi Route, which passes through several neighbourhoods and locations in Pune. Key goals included:

- **Garbage Collection:** To collect and dispose of litter and waste generated by pilgrims and residents along the Palkhi Route.
- **Community Participation:** To engage volunteers from various backgrounds, including residents, government agencies, educational institutions, and social organisations, in the cleanup efforts.
- **Data Collection:** To record the number of used vehicles, volunteers, trips, and total garbage collection (in kilograms) to measure the impact of each cleanup drive.

The campaign consisted of several cleanup drives on specific dates in June 2022. Each drive focused on cleaning a different section of the Palkhi Route. The efforts included organising volunteers, providing necessary equipment, and collaborating with local authorities and institutions. Here is a summary of the key activities and outcomes:

- **Garbage Collection:** Over 83 cleanup trips collected 50,350 kilograms of garbage.
- **Community Participation:** 855 volunteers participated in the campaign, representing various stakeholders, including PMC (Pune Municipal Corporation), educational institutions, local groups, and dedicated individuals.
- **Collaboration:** The campaign witnessed partnerships with various organisations and entities, such as PMC, Agriculture College students, ASR Volunteers, Jay Hind Group, PCB (Pune Cantonment Board), and more.



The APCCI's Palkhi Route Clean 2022 campaign achieved remarkable results in multiple dimensions:

- **Environmental Impact:** The cleanup drives significantly reduced litter and waste along the Palkhi Route, contributing to a cleaner and more sustainable pilgrimage path.
- **Community Engagement:** The campaign fostered a sense of community responsibility and brought together volunteers from diverse backgrounds to work towards a common goal.
- **Collaboration:** Collaboration with various organisations and institutions ensured a holistic approach to environmental conservation.

The APCCI's Palkhi Route Clean 2022 campaign is a testament to the power of community-led environmental initiatives. It showcased how a dedicated group of individuals and organisations can substantially impact the cleanliness and sustainability of a historically significant route. The campaign's success is an example for other regions and communities looking to initiate similar cleanup efforts and emphasises the importance of community involvement in environmental preservation.



### iii. Case Study: Transforming Waste Management in Manjari and Beyond (2022-23 Update)

#### Prelude - 2021-22:

In June 2021, the Pune Municipal Corporation (PMC) took a significant step by incorporating 11 fringe villages, including Manjari, into its jurisdiction. However, this transition brought to light the pressing issue of waste management that plagued Manjari for years. The area suffered from limited door-to-door waste collection, and residents often resorted to disposing of waste in open dumps. This dire situation sparked protests among local citizens who yearned for cleaner surroundings and effective waste management solutions.

In response to this challenge, the Adar Poonawalla Clean City Initiative (APCCI) embarked on a mission to transform waste management in Manjari. The approach was comprehensive and involved the SWaCH waste pickers program, which focused on several key aspects:

**Route Planning:** An efficient waste management system begins with well-structured routes. APCCI collaborated with SWaCH to meticulously plan collection routes, ensuring maximum coverage and minimising gaps.

**Monitoring Feeder Points:** Effective waste collection requires a keen eye on feeder points where waste accumulates. Monitoring these points became a pivotal aspect of our strategy.

**Secondary Collection System Planning:** To ensure that no waste was left unattended, APCCI worked on implementing a secondary collection system for areas that required additional attention.

**Awareness Campaigns:** Raising awareness among residents was essential to the success of waste segregation and collection. APCCI, along with local volunteers, conducted various awareness

campaigns to engage and educate the community.

This concerted effort yielded significant results, with 60% coverage achieved within just two months. As part of this initiative, Janwani conducted a property survey, identifying a total of 61,800 households in Manjari. This data was electronically stored for effective monitoring and management. The Zero Garbage Model was implemented in Manjari through collaborative efforts involving SWaCH, PMC, local volunteers, APCCI Supervisors, and Janwani.

Ward (1 to 6) Coverage and Segregation Status by 31st March 2022:

Wards 1 to 6	Actual Open Households	Coverage	Segregation
Total	44532	37420	26591

The collective results showcased an impressive 84% waste collection coverage and 71% segregation in Manjari. Notably, the first phase wards, including 1, 2, 5, and 6, excelled with a remarkable 95% coverage and 75% segregation.

#### 2022-23 Update:

Building on the success of the previous year, APCCI continued its tireless efforts in the fiscal year 2022-23. The coverage and segregation initiatives expanded beyond Manjari to include neighbouring areas, particularly Hadapsar - Shewalwadi (Kodre Nagar). Here are the updates for 2022-23:

Coverage and Source Segregation Achieved for 2022-23:

Manjari Ward No. 1 to 6: 5672 Total Households Covered for Collection.

Source Segregation Achieved at Manjari: 3271 Households



Wards 1 to 6	Actual Open Households	Coverage (Till March 2023)	Segregation (Till March 2023)
Total	44532	43092	29862

The combined outcomes demonstrated an outstanding 96% coverage of waste collection, with 69% of the covered households actively participating in waste segregation in Manjari.

Extension of the Zero Garbage to Hadapsar - Shewalwadi (Kodre Nagar): 1159 Households Engaged.

This progression signifies a continued commitment to the cause, with a focus on sustainable waste management practices and a

cleaner, more livable environment for the residents of Manjari and the extended areas. The collaborative efforts of all stakeholders involved, including SWaCH, PMC, local volunteers, APCCI Supervisors, and Janwani, have been instrumental in achieving these milestones.

The journey towards efficient waste management continues, with a vision of creating not only cleaner neighbourhoods but also a sustainable and environmentally conscious community for generations to come. APCCI remains steadfast in its dedication to this cause, embodying the ethos of responsible urban development and community well-being.





## c. Behaviour Change Communication

At the beginning phase of APCCI, a smaller area from Salisbury Park was selected for a 3-month trial period. State-of-the-art fleet machines like Electric Gluttons and Trilos efficiently managed the street waste during his period. This pilot project boosted confidence to spread the initiative to other areas of the city. This initiative now covers 634 kilometres of roads in Pune and 77 kilometres of Roads in Mumbai South G ward.

This progress in activity required behavioural change at various levels. The communication of the necessary change occurs in four stages:

- a. APCCI and Janwani:—APCCI and Janwani's team worked hard to expand the initiative and planned resource utilisation, work efficiency and behaviour change communication strategy.
- b. ULB Prabhadhag representatives and Janwani coordinators: The Prabhadhag committee representatives and Janwani coordinators are responsible for planning the exact route and schedule. Fleet, Machinery and waste warriors are deployed accordingly.
- c. Waste Warriors: New areas or streets are included based on resource utilisation and optimization. This information is communicated to waste warriors, and effective changes are made.
- d. Citizens: Citizens participation has increased significantly during the last four years due to various awareness programs and special events. This has resulted in a change in peoples' attitude towards street hygiene and waste segregation. More than 4,300 bins were placed at strategic locations along 73

main roads in the Pune city from APCCI initiative. The use of info-graphics and colour-coded litter bins—green for biodegradable and blue for recyclable, resulted in better waste segregation.



## d. Citizen Outreach

APCCI's achievements cannot emphasise the importance of public engagement. Public work done by a private entity requires acceptance from all stakeholders. Citizens of the city are key stakeholders. APCCI takes special efforts to reach out and educate the citizens.

Activities regarding citizen's outreach are organised for a month and carried out. Janwani takes the lead in organising such events. Feedback from citizens and comments of appreciation are indicators of the success of these programs. The table below shows the yearly data on the events held by APCCI.

## e. Citizen Connect Through APCCI Mobile App

At APCCI, we recognize the importance of citizen engagement and the value of providing a transparent platform for the community to actively participate in our initiatives. In this spirit, we have developed the APCCI mobile application, a powerful tool that enables citizens to connect with us seamlessly and contribute to the betterment of their cities. This section sheds light on our Citizen Connect initiative through the APCCI mobile app, a digital gateway to a cleaner and more sustainable future.

### Empowering Citizens through Technology

In an era where technology is driving transformative change, APCCI has harnessed its potential to empower citizens and streamline our operations. The APCCI mobile app, available for both Android and iOS devices, is a user-friendly and intuitive platform that offers a multitude of benefits to our communities.

### Key Highlights:

**User-Friendly Interface:** The APCCI mobile app boasts a user-friendly interface that makes it easy for citizens to navigate and

access its features. Whether you want to report a concern, request street waste collection, or seek assistance with garbage spot cleaning, the app provides a hassle-free experience.

**Transparency and Better Tracking:** With a dedicated server and robust data security protocols, the app ensures that all interactions and transactions are secure and transparent. Citizens can track the progress of their requests, providing real-time updates on the status of their concerns.

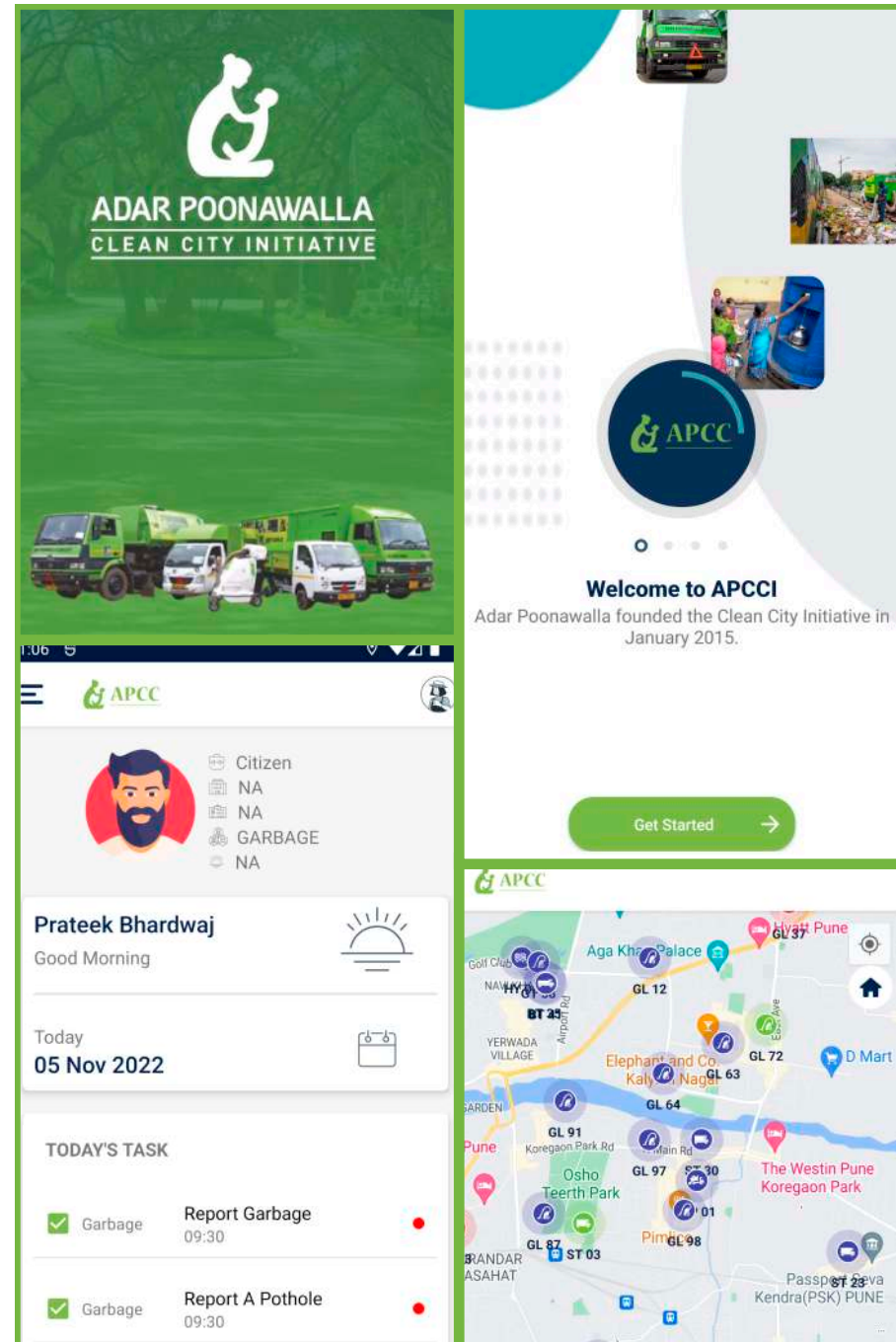
**Reporting and Responsiveness:** The app serves as a direct channel for citizens to raise their concerns, request waste pickups, and seek assistance for chronic garbage spots. In the fiscal year 2022-23, our mobile app witnessed an impressive 10,000+ downloads, with 1,062 waste pickup concerns reported and promptly addressed.

**Community Ratings:** The APCCI mobile app has earned the trust and approval of our users. It holds an impressive average rating of 4.6 on the Google Play Store and 4.7 on the iOS Play Store, reflecting the positive experiences of our community members.

Enhanced Operations: Through the mobile app, we gather essential data on fuel usage, maintenance needs, and cleaning activities. This information aids in optimising our operations, ensuring efficient waste management, and enhancing our commitment to sustainability.

### A Digital Pathway to Cleaner Cities

The Citizen Connect initiative through the APCCI mobile app is more than just a tool; it's a testament to our dedication to creating cleaner, more livable cities. We believe that technology, when harnessed for the common good, can bridge the gap between citizens and the organisations working for their well-being. By providing an accessible platform for concerns, requests, and feedback, we empower our communities to actively participate in the journey towards cleaner and more sustainable urban environments. The APCCI mobile app is more than technology; it's a digital pathway to a brighter and cleaner future, driven by the collective efforts of our citizens and our organisation.





## f. Citizen Feedback

Thank you for your dedication to cleaning and maintaining our Manjari Budruk Road and Area . You may think that no one notices your hard work, but we do – each and every day. The cleanliness and efficiency of the Road and Manjari Area is a joy for all of us. Keep up the great work!

**Shivaji Umate**

I reported the garbage , and I got a quick response from Pawan Badgujar & Nitin Kale & his team. They did a beautiful job. I just want to thank you for doing what you do to enrich the lives of others, make others' lives better, and going out of your way to help us. You are essential to our communities and our well-being. You are amazing!

**Suresh L. Kolekar**

Living in a clean and sustainable environment is something that we often take for granted. However, thanks to your dedication and hard work, our city is able to maintain a high level of cleanliness and hygiene. Your efforts not only enhance the aesthetic appeal of the city, but also contribute to the overall well-being of its inhabitants.

**Chetan Desai**

I wanted to take a moment to express my sincere appreciation for the incredible work that you and your team have been doing in keeping Manjari Budruk clean and beautiful.

Your dedication and hard work have not gone unnoticed. It is evident that you take great pride in your work, and it reflects in the impeccable cleanliness of our community. Your attention to detail, commitment to maintaining hygiene, and the tireless efforts you put in each day are truly commendable.

**Subha Swain**

The recent road repair project has made a remarkable difference in the quality and safety of our local roads, and I wanted to convey my gratitude for the excellent job done.

It is evident that the repairs were executed with great expertise and attention to detail. The level of professionalism demonstrated by your team throughout the entire process was truly commendable. From the initial assessment to the completion of the roadwork, your staff displayed a high level of skill, efficiency, and dedication.

**Vinayak Pardeshi**

To all the big questions, issues, or problems I had and dreaded after losing my bag, they just ended it by giving my bag as it is to me. It was like a gift to me with lots of blessings.

The commitment they had in their work, their responsibility as fellow citizens, is making me understand that we never knew how being honest, responsible, and caring will be of help to us and the people around us.

If they hadn't bothered to care about the bag they saw, if they hadn't considered how the person who lost these belongings would be feeling, I would not be here writing this post with so much hope, love, and gratitude.

A big salute to Mr. Amit Ghadge and Mr. Mangesh Jadhav and Adar Poonawalla. Hats off to you all!

**Uma Sankarmahadevan**

I want to congratulate you on the initiative taken on making Pune City clean by your organization. Your Group has really made Pune better to live in.

**Viraj Gurjar**

## g. Volunteer Contribution

APCCI is a citizen-driven initiative characterised by active participation from diverse volunteers spanning various segments of society. The organisation has garnered substantial volunteer engagement, whereby interested citizens undergo a meticulous screening process before contributing as either groups or individuals. The coordination process involves regular meetings aimed at orchestrating an array of activities. These volunteer-driven initiatives encompass:

- **Sanitation Drives:** Volunteers enthusiastically engage in cleanup activities, fostering a cleaner environment.
- **Community Awareness Campaigns:** APCCI spearheads awareness initiatives to educate the public on crucial environmental and sanitation issues.

- **Educational Outreach:** The organisation conducts programs within academic institutions, delivering essential lessons on cleanliness and environmental responsibility.
- **Event Coordination:** APCCI is pivotal in coordinating large-scale events, including marathons and cycle rallies, to promote the causes it champions.

Through these diverse endeavours, approximately 21,643 dedicated volunteer participations have been registered in cleanliness campaigns. Notably, some activities, such as rallies and awareness campaigns, needed to improve their execution due to the challenges posed by the COVID-19 pandemic. Nevertheless, the commitment of APCCI and its volunteers remains unwavering in their mission for a cleaner and more sustainable environment.









## h. Educating the Future Generation

"The individual is important not because of what he is, but because of what he is to become." - Sri Aurobindo

At the Adar Poonawalla Clean City Initiative (APCCI), we firmly believe that the younger generation holds the key to a cleaner and more sustainable future. Our commitment to effective waste management extends beyond the present, as we recognize the crucial role that education plays in fostering responsible citizens for tomorrow.

### Empowering through Awareness

We understand that educating the youth about proper waste management is a powerful tool for shaping responsible behaviours and attitudes. Our multifaceted approach includes engaging with schools, colleges, and communities to instil a strong sense of environmental responsibility. Through awareness sessions, we aim to equip young minds with the knowledge and tools they need to become stewards of waste management.

### Key Topics Covered

Our educational initiatives cover a spectrum of essential waste management topics, including:

- **Definition of Waste:** We provide students with a clear understanding of what constitutes waste, emphasising the importance of proper disposal.
- **Categories of Waste:** Students learn about the different types of waste and the significance of segregating them for efficient management.
- **Importance of Segregation:** We underscore the critical role of waste segregation in reducing environmental impact.

- **Impact of Waste:** Students gain insights into the environmental and societal consequences of mismanaged waste.
- **Alternatives to Plastic:** We promote eco-friendly alternatives to plastic to reduce plastic waste.
- **Recycling Methods:** Understanding the recycling process is central to our educational efforts.
- **Rules and Regulations:** We educate students on relevant waste management regulations and guidelines.
- **APCCI's Activities:** Students are introduced to APCCI's initiatives in addressing waste management challenges in the community.

### Hands-On Learning

Our approach is not limited to theoretical knowledge. During awareness sessions, actual waste samples are shown to students, enabling them to identify different types of waste, from banana peels to battery cells. This hands-on learning experience enhances their comprehension and engagement.

### Engaging the Youth

Our educational activities are structured throughout the year, covering all quarters. The engagement of students in various activities is significant:

- **Poster Presentations:** Four sessions dedicated to creating awareness through visual presentations.
- **Awareness through PA System:** Seven sessions using audio communication to reach a wider audience.
- **Segregation Campaign:** Six campaigns promoting the practice of waste segregation.

- **3R (Reduce, Reuse, Recycle) Special Drives:** A total of three sessions focused on the principles of the 3Rs.
- **Cleanliness Drives:** An impressive 22 drives to instil the importance of cleanliness.
- **School Awareness:** A comprehensive program involving schools, engaging a total of 135 sessions and reaching over 10,000 students.

### Shaping Responsible Citizens

Our commitment to educating the younger generation extends beyond mere knowledge dissemination; it's about nurturing a generation of responsible citizens who actively participate in waste management. Sensitising the youth not only contributes to a cleaner city but also helps build a better, more sustainable nation for us all. By empowering the future generation, we're taking vital steps toward a brighter and cleaner future.



# Employee Health, Safety and Wellbeing

## a. Waste Warriors - Change Enabler

Our belief is that our people are actual ambassadors in keeping the city clean with the help of the urban local body and their various partners in its endeavour.

Our main partner, Janwani, has been associated with us since the beginning and has helped to streamline the process of mapping the roads, route planning and coordination with ULBs for all support services. They also carry out regular work performance audits. This year, Janwani has focused its resources on conducting weekly audits, beautifying chronic spots, and engaging with citizens. To support these efforts, a small team of MIS and documentation staff has been dedicated to keeping a record of activities and providing information for decision making.

During the reporting period, Janwani deployed 15 staff members for APCCI activities, who have been highly productive in covering more areas. Despite the smaller team size, Janwani has made significant progress in achieving its goals of conducting weekly audits, beautifying chronic spots, and engaging with citizens.

Janwani remains committed to improving waste management practices in the areas it serves, and will continue to allocate resources strategically to achieve this goal. The organisation values its partnership with the community, and will work collaboratively with citizens to ensure a cleaner and more sustainable environment for all.

### Helping Hand through our Waste Warriors:

Since 2016, APCCI has had the pleasure of working alongside Poornam Ecovision Foundation (PEF) in various waste management activities. Poornam has been an invaluable knowledge and implementing partner in these efforts, and we are grateful for our

ongoing association. Together, we have been able to expand the reach of our E-waste collection drive to a wider audience, and Poornam's contributions have been instrumental in this success.

We are proud to have provided timely transport support of 12 Vehicles to PEF for their E-waste Collection drives from more than 150 collection centres across Pune within a short period of just two hours.

For building connections with citizens APCCI has used technology. The APCCI app has 3,159 newly registered users in the reporting year.

### Our Workforce:

In the pursuit of our strategic objectives, APCCI has actively engaged third-party manpower to streamline operations, enabling our organisation to maintain agility and make swift decisions. This outsourcing strategy empowers APCCI to place a greater focus on technology advancement and the optimization of waste collection processes.

The selection of third-party manpower service providers is a carefully considered process, guided by established criteria. In the fiscal year 2022-23, the workforce was structured as follows:

Supervisors	Fleet Drivers	Helpers	Glutton Operators
49	191	Promoted to Operators	345

It is noteworthy that APCCI has taken significant strides to promote employees in the Helper category to the role of Operators. This initiative carries socio-economic benefits for our dedicated workforce, offering opportunities for professional growth and personal development.



We place a strong emphasis on ensuring the well-being of our workforce. In this regard, on-the-job training is provided to our contractual manpower upon joining. Regular training sessions are conducted to uphold safety and hygiene standards, reflecting our unwavering commitment to employee welfare.

APCCI is resolute in our stance against child labour, affirming our pledge to refrain from employing child labor directly or through contractual arrangements. Furthermore, we are steadfast in enforcing our commitment to equal opportunity for all, irrespective of factors such as caste, class, religion, or gender. Our selection of manpower suppliers reflects these principles, reinforcing our dedication to inclusivity and fairness in all aspects of our operations.

Our commitment to employee development extends to providing comprehensive on-the-job training. This practical training equips our workforce with the necessary skills and knowledge to excel in their roles, ensuring efficiency and safety in all our operations. On-the-job training is being provided at regular intervals to operators, drivers, technicians and supervisors.

Category	Total Annual Training in Hours			
	19-20	20-21	21-22	22-23
Supervisor	353	345	361	412
Driver	984	986	1034	1146
Helper	553	515	539	-
Operator	1308	1287	1348	2070

Table: Total Operational training of employees in hours



Table: Operational training to waste warriors

Training Number	Title and Content of Training to Waste Warriors	Outcome
Module-1	Ethics and Best Operating Procedures: The first training module covers - ethics, values, daily operating procedure, routine checks, technical aspects of APP technology, fleet machine technology, symptoms, protective and preventive maintenance, anti-corruption	<ul style="list-style-type: none"> <li>■ Deeper awareness and knowledge</li> <li>■ Improved moral responsibility, pride and happiness at the workplace</li> <li>■ A complete and better understanding of on-job activities and practices</li> </ul>
Module-2	Safety–Importance and Personal Protection Equipment: The second training module covers–why human safety and health is important, know your safety gears, use of safety gears, hazards identification and risk assessment (HIRA)	<ul style="list-style-type: none"> <li>■ Increase in safety and ease of doing activities</li> <li>■ Good health and rare sick leaves</li> <li>■ Higher retention and courage at work</li> </ul>
Module-3	Awareness of Behavioural Change Communication for further development: The third training module covers–why change is desirable, manner and appearance at the workplace, ways of communication, reporting, and use of technology for change and better judgement, feedback and performance reviews.	<ul style="list-style-type: none"> <li>■ Higher awareness and knowledge</li> <li>■ Innovative, polite, patience in approaching and judgement</li> <li>■ Better and patient cooperation with citizens</li> <li>■ Motivated and sustained behaviour</li> </ul>

## **b. Dignity through Technology**

Traditionally, street cleaning activities were labour-intensive, with street cleaners utilising long brooms and often lacking protective gear. These methods proved to be both arduous and only marginally effective while simultaneously posing health risks to the waste warriors. APCCI brought about a transformation by introducing cutting-edge machinery. This technological shift not only simplified

the cleaning process but also enhanced the dignity of the operators. With the introduction of these machines, longer stretches of streets could now be efficiently cleaned in significantly less time. An exemplary instance is the Electric Glutton, a single operator that can clean an impressive 8 kilometres, a task that would have required four personnel to accomplish manually.

## **c. Economic Prosperity**

Beyond the evident improvements in street cleanliness, APCCI has also substantially contributed to economic well-being. The impact extends to the livelihoods of more than 585 employees, the organisation's NGO partners, and others who have benefited from indirect employment opportunities created by these initiatives. It is worth highlighting that APCCI has taken substantial measures to

elevate employees in the Helper category to the position of Operators. This initiative has been instrumental in enhancing the socio-economic well-being of our committed workforce, providing them with avenues for professional advancement and personal financial growth.

## **d. Supporting Urban Local Bodies (ULBs)**

The collaborative efforts of APCCI have significantly bolstered the capabilities of Urban Local Bodies (ULBs) in maintaining the city's cleanliness. This partnership has led to healthier surroundings and a profound sense of civic pride among the citizens, ultimately enhancing the quality of urban life.



## e. Personal Protection and safety

A prominent feature of this initiative is its unwavering commitment to personal safety. All personnel engaged in field operations receive the requisite personal protective equipment in compliance with legal mandates. These protocols strictly adhere to the safety, health, and environmental standards prescribed by law. Thanks to APCCI's rigorous approach to security, there were no reported severe or minor accidents during FY 22-23. The comprehensive personal protection and safety gear furnished includes safety shoes, gloves, respirator masks, headgear, aprons, raincoats, drinking water containers, and hand sanitizers, guaranteeing the workforce's well-being.

In addition to this commitment, we are proud to have achieved two significant sustainability goals in 2022-23. First, we introduced physiotherapy services for our dedicated waste warriors to address the physical strain associated with waste collection and segregation. This initiative aims to enhance their overall health and well-being, reinforcing our dedication to their welfare.

Secondly, we conducted regular health check-ups and eye camps, ensuring the waste warriors' overall well-being. These health initiatives reflect our commitment to the holistic health of our workforce, promoting their physical and visual health. Through these efforts, we continuously strive to create a safer and healthier working environment for all those dedicated to our cause.



## f. Legal compliance

Compliance with government regulations and statutory mandates is a cornerstone of APCCI's operational framework. Our processes align with standard government policies concerning wage disbursements and legal obligations.

APCCI complies with the standard government policies on wage payments and statutory legal compliances. APCCI provides enhanced benefits which are over and above the laid down government norms.

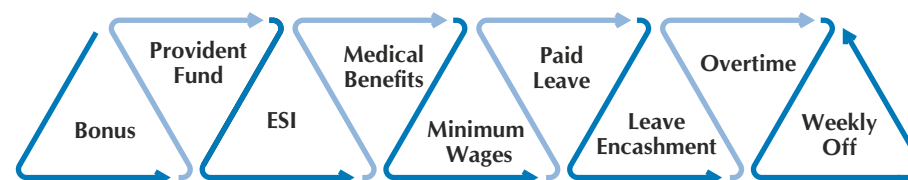


Figure 12: Legal compliances

## g. Retention policy

Our entire team shares a fervent dedication to maintaining the city's cleanliness. This shared commitment has been embraced as a Standard Operating Procedure, fostering a solid retention policy that has resulted in an attrition rate of less than 5%.

## h. Skill diversity

Skill diversity is a vital element underpinning the success of our initiative. Consequently, APCCI hosts regular training programs to sharpen and enhance our employees' skill sets. The curriculum is continuously updated to incorporate the latest skills. Skills diversity is categorised into three key areas:

**Operator/Driver's Skills:** Waste warrior drivers operating fleet machinery must possess expertise in driving and fleet maintenance, repairs, and daily housekeeping practices. They need in-depth knowledge of various waste types, enabling adequate segregation for optimal waste collection.

**Supervisor's Skills:** Our supervisors engage with ULB staff at various levels, ranging from ground-level operators to Sanitary Inspectors and transfer station officials. This role demands coordination, team








management, analytical thinking, leadership, and problem-solving skills.

**Executive Body:** Comprising APCCI's CEO, COO, coordinators, and the Janwani project manager, the administrative body oversees the entire initiative. Many members of this executive team are residents of Pune. Their responsibilities encompass planning, monitoring, swift decision-making, and problem-solving to ensure the seamless functionality of the initiative. The administrative body guides the team in addressing operational challenges and devising practical solutions.




# Appendix




## a. Mapping UN's Sustainable Development Goals (UN's SDG)

Sustainable development goals (SDGs) mapping of how the initiative is adding value to

Sustainable Development Goals (SDGs)	Significant Sustainability actions by APCCI	Sustainable Development Goals (SDGs)	Significant Sustainability actions by APCCI
 <b>1 NO POVERTY</b>	<b>Contributing to target 1.b</b> <ul style="list-style-type: none"> <li>■ APCCI provided employment to 580 + members of low-income families</li> <li>■ APCCI pays more than minimum wages</li> </ul>	 <b>6 CLEAN WATER AND SANITATION</b>	<b>Contributing to targets 6.2, 6.3, 6.b</b> <ul style="list-style-type: none"> <li>■ Waste segregation processes for better sanitation</li> <li>■ Conserving water for cleaning of fleet machines by use of wet cleaning cloths</li> </ul>
 <b>3 GOOD HEALTH AND WELL-BEING</b>	<b>Contributing to target 3.c</b> <ul style="list-style-type: none"> <li>■ Cleaning streets directly impacts health</li> <li>■ 8 types of personal protective equipment to waste warriors</li> <li>■ Strategic activities to change citizen behaviour</li> <li>■ Skill development training to fleet drivers, helpers, Glutton operators and supervisors</li> </ul>	 <b>7 AFFORDABLE AND CLEAN ENERGY</b>	<b>Contributing to target 7.a</b> <ul style="list-style-type: none"> <li>■ Invested in clean and fossil-fuel friendly fleet machines like Glutton and others, which are advanced, efficient and have low carbon technology base</li> </ul>
 <b>4 QUALITY EDUCATION</b>	<b>Contributing to targets 4.4, 4.7</b> <ul style="list-style-type: none"> <li>■ 600 + skilled jobs made available to youths</li> <li>■ Skill development training including technical and vocational skills for creating decent working conditions and experience</li> <li>■ Various procedures and innovative approaches adopted for citizens engagement, volunteers and coming generation for providing deeper knowledge and skills required to promote sustainable development</li> </ul>	 <b>8 DECENT WORK AND ECONOMIC GROWTH</b>	<b>Contributing to targets 8.6, 8.8, 8.b</b> <ul style="list-style-type: none"> <li>■ Provided state-of-the-art technology-based fleet machines for ease of work</li> <li>■ No physical contact with waste while collection, cleaning and transport</li> <li>■ Faster feedback system to enhance productivity</li> <li>■ Direct employment for more than 580 + persons</li> </ul>
		 <b>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</b>	<b>Contributing to targets 9.1, 9.2, 9.4, 9.5</b> <ul style="list-style-type: none"> <li>■ Public-private partnership</li> <li>■ Use of innovative approach and advanced fleet machines</li> <li>■ Optimum coverage due to innovative operating procedures</li> </ul>



Sustainable Development Goals (SDGs)	Significant Sustainability actions by APCCI
	<b>Contributing to targets 10.2, 10.3</b> <ul style="list-style-type: none"> <li>■ Promoting socio-economic growth</li> <li>■ Empowering all people who are connected and are benefiting due to services</li> <li>■ Provided outcome driven opportunities for stakeholders involved</li> </ul>
	<b>Contributing to targets 11.1, 11.6, 11.7, 11.a</b> <ul style="list-style-type: none"> <li>■ Directly impacts the city's health and hence that of its citizens</li> <li>■ Cleaning activity ensures waste management</li> </ul>
	<b>Contributing to targets 12.2, 12.4, 12.5, 12.6, 12.8, 12.a</b> <ul style="list-style-type: none"> <li>■ Low carbon fleet machines and optimisation of fleet route</li> <li>■ Use of IT interventions for operations efficiency</li> <li>■ Environmentally sound waste management procedures (SOPs)</li> <li>■ Awareness campaigns on waste reduction and management skills required to promote sustainable development</li> </ul>

Sustainable Development Goals (SDGs)	Significant Sustainability actions by APCCI
	<b>Contributing to target 13.3</b> <ul style="list-style-type: none"> <li>■ Climate action by investing in low-carbon electric fleet machines and BS-IV diesel fleet machines</li> <li>■ Optimum fleet travel lowers emissions</li> </ul>
	<b>Contributing to targets 16.5, 16.6, 16.7</b> <ul style="list-style-type: none"> <li>■ Training on various topics including anti-corruption and transparency at work</li> <li>■ Inclusive development and decisions by participatory way</li> </ul>
	<b>Contributing to targets 17.6, 17.7, 17.8, 17.9, 17.15, 17.16, 17.17, 17.18</b> <ul style="list-style-type: none"> <li>■ Collaboration with stakeholders like ULBs, Gram panchayats</li> <li>■ Partnership with NGOs like Janwani, Swachh, Poornam</li> <li>■ Partnership with service providers like BP, Mtech (TATA)</li> </ul>

## b. GRI Content Index



For the Content Index - Essentials Service, GRI Services reviewed that the GRI content index is clearly presented, in a manner consistent with the Standards, and that the references for disclosures 2-1 to 2-5, 3-1 and 3-2 are aligned with the appropriate sections in the body of the report.

GRI 1 used	Adar Poonawalla Clean City Initiative has reported in accordance with GRI Standards for the period of <b>1st April 2022 to 31st March 2023</b> GRI 1: Foundation 2021
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GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
<b>General disclosures</b>					
GRI 2: General Disclosures 2021	2-1 Organizational details	2 to 5			
	2-2 Entities included in the organization's sustainability reporting	8			
	2-3 Reporting period, frequency and contact point	8			
	2-4 Restatements of information	There is no restatement of information for the reporting year of 2022-23			
	2-5 External assurance	Report is not externally assured			
	2-6 Activities, value chain and other business relationships	09, 20, 21, 22, 34, 35, 37, 46			
	2-7 Employees	72, 73			
	2-8 Workers who are not employees	72, 73			
	2-9 Governance structure and composition	29, 30			
	2-10 Nomination and selection of the highest governance body	Self-appointed (the organisation is founded by the chair)			

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
	2-11 Chair of the highest governance body	Founder - Mr. Adar Poonawalla			
	2-12 Role of the highest governance body in overseeing the management of impacts	Primarily funding & direction			
	2-13 Delegation of responsibility for managing impacts	Responsibility is primarily delegated to Chief Executive Officer (CEO) & Chief Operations Officer (COO)			
	2-14 Role of the highest governance body in sustainability reporting	2, 3			
	2-15 Conflicts of interest	No conflict of interest exists in the current structure of the organisation			
	2-16 Communication of critical concerns	30			
	2-17 Collective knowledge of the highest governance body	The knowledge is disseminated through orientation sessions of the employees			
	2-18 Evaluation of the performance of the highest governance body	The Evaluation is based on personal interactions			
	2-19 Remuneration policies	Remuneration policy is primarily based on performance based pay, though a fully flushed out policy is not formulated for the reporting year of 2022-23			
	2-20 Process to determine remuneration	Determination of the policy principals is done by the highest governance body and CEO with basis of government prescribed norms			
	2-21 Annual total compensation ratio			Confidentiality constraints	According to organisations policy
	2-22 Statement on sustainable development strategy	2 to 5, 28, 48, 57			
	2-23 Policy commitments	No such policy has been formulated in the reporting year of 2022-23			



GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
	2-24 Embedding policy commitments			Not applicable	Refer to 2-23
	2-25 Processes to remediate negative impacts	33, 34, 49, 50, 51, 52			
	2-26 Mechanisms for seeking advice and raising concerns	Personal meetings & periodical review meetings			
	2-27 Compliance with laws and regulations	77			
	2-28 Membership associations	21, 22			
	2-29 Approach to stakeholder engagement	20 to 23			
	2-30 Collective bargaining agreements	The organisation follows the mechanisms prescribed according to Labour laws of India.			
<b>Material topics</b>					
GRI 3: Material Topics 2021	3-1 Process to determine material topics	24			
	3-2 List of material topics	24, 25			
<b>Waste Collection, Segregation, Disposal</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 2: General Disclosures 2021	2-1 Organizational details	2 to 5			
GRI 201: Economic Performance 2016	201-1 Direct economic value generated and distributed	44, 45			
	201-2 Financial implications and other risks and opportunities due to climate change	39, 40, 48 to 50, 56			
	201-3 Defined benefit plan obligations and other retirement plans	42, 43			
	201-4 Financial assistance received from government	No Financial assistance was recieved for the reporting year of 2022-23			
GRI 203: Indirect Economic Impacts 2016	203-1 Infrastructure investments and services supported	34 to 47			
	203-2 Significant indirect economic impacts	54, 58, 62, 63			
GRI 301: Materials 2016	301-1 Materials used by weight or volume	10, 11, 54, 58			

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
GRI 308: Supplier Environmental Assessment 2016	308-1 New suppliers that were screened using environmental criteria	No new suppliers were identified for the reporting year of 2022-23			
GRI 414: Supplier Social Assessment 2016	414-1 New suppliers that were screened using social criteria	No new suppliers were identified for the reporting year of 2022-23			
<b>Environmental Impact</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 302: Energy 2016	302-1 Energy consumption within the organization	49			
	302-2 Energy consumption outside of the organization	No significant energy consumption outside the organisation was recorded for the reporting year of 2022-23			
	302-3 Energy intensity	26, 49			
	302-4 Reduction of energy consumption	51, 52, 53			
	302-5 Reductions in energy requirements of products and services	No significant reductions were recorded for the reporting year of 2022-23			
<b>Employee Care &amp; Benefits</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 2: General Disclosures 2021	2-16 Communication of critical concerns	30			
GRI 401: Employment 2016	401-1 New employee hires and employee turnover	72			
	401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	75, 77			
GRI 403: Occupational Health and Safety 2018	403-1 Occupational health and safety management system	74, 76			
	403-3 Occupational health services	76, 77			
	403-5 Worker training on occupational health and safety	74			
	403-6 Promotion of worker health	74, 75			

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
	403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	73, 74			
	403-8 Workers covered by an occupational health and safety management system	72,73			
	403-9 Work-related injuries	No incidents of work related injuries were reported in 2022-23			
	403-10 Work-related ill health	No incidents of work related ill health were reported in 2022-23			
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	73			
	404-2 Programs for upgrading employee skills and transition assistance programs	74, 77			
	404-3 Percentage of employees receiving regular performance and career development reviews	No such data was recored for the reporting year of 2022-23			
<b>Community Engagement</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	58 to 71			
	413-2 Operations with significant actual and potential negative impacts on local communities	No negative significant actual and potential negative impacts on local communities were recorded for the reporting year of 2022-23			
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	32, 33, 47			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	No incidents of non-compliance concerning the health and safety impacts of products and services were reported for the reporting year of 2022-23			



GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
<b>Technological Interventions</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 302: Energy 2016	302-1 Energy consumption within the organization	49			
	302-4 Reduction of energy consumption	51, 52, 53			
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	32, 33, 47			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	No incidents of non-compliance concerning the health and safety impacts of products and services were reported for the reporting year of 2022-23			
GRI 305: Emissions 2016	305-1 Direct (Scope 1) GHG emissions	50			
	305-2 Energy indirect (Scope 2) GHG emissions	50			
	305-3 Other indirect (Scope 3) GHG emissions	Indirect (Scope 3) GHG emissions were not recorded for the reporting year of 2022-23			
	305-4 GHG emissions intensity	26, 51			
	305-5 Reduction of GHG emissions	51			
GRI 306: Waste 2020	306-1 Waste generation and significant waste-related impacts	Data is not available for the reporting year of 2022-23			
	306-2 Management of significant waste-related impacts	34 to 40, 46, 54			
	306-3 Waste generated	Data is not available for the reporting year of 2022-23			
	306-4 Waste diverted from disposal	Data is not available for the reporting year of 2022-23			
	306-5 Waste directed to disposal	Data is not available for the reporting year of 2022-23			

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
<b>Ethical Practices and Governance</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 205: Anti-corruption 2016	205-3 Confirmed incidents of corruption and actions taken	No incidents of corruption were reported for the reporting year of 2022-23			
GRI 206: Anti-competitive Behavior 2016	206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	No incidents of anti-competitive behavior, anti-trust and monopoly practices were reported for the reporting year of 2022-23			
GRI 415: Public Policy 2016	415-1 Political contributions				The APCCI is politically neutral.
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	32, 33, 47			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	No incidents of non-compliance concerning the health and safety impacts of products and services were reported for the reporting year of 2022-23			
<b>Collaborations and Partnerships</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 205: Anti-corruption 2016	205-3 Confirmed incidents of corruption and actions taken	No incidents of corruption were reported for the reporting year of 2022-23			
GRI 206: Anti-competitive Behavior 2016	206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	No incidents of anti-competitive behavior, anti-trust and monopoly practices were reported for the reporting year of 2022-23			
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	32, 33, 47			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	No incidents of non-compliance concerning the health and safety impacts of products and services were reported for the reporting year of 2022-23			

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
<b>Public Perception and Goodwill</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	58 to 71			
	413-2 Operations with significant actual and potential negative impacts on local communities	No negative significant actual and potential negative impacts on local communities were recorded for the reporting year of 2022-23			
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	32, 33, 47			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	No incidents of non-compliance concerning the health and safety impacts of products and services were reported for the reporting year of 2022-23			
GRI 417: Marketing and Labeling 2016	417-1 Requirements for product and service information and labeling	64 to 67			
	417-2 Incidents of non-compliance concerning product and service information and labeling	No incidents of non-compliance concerning product and service information and labeling were reported for the reporting year of 2022-23			
	417-3 Incidents of non-compliance concerning marketing communications	No incidents of non-compliance concerning marketing communications were reported for the reporting year of 2022-23			
GRI 418: Customer Privacy 2016	418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data	No substantiated complaints concerning breaches of customer privacy and losses of customer data were reported for the reporting year of 2022-23			



GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
<b>Circular Economy Initiatives</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 301: Materials 2016	301-1 Materials used by weight or volume	10, 11, 54, 58			
GRI 302: Energy 2016	302-1 Energy consumption within the organization	49			
	302-2 Energy consumption outside of the organization	No significant energy consumption outside the organisation was recorded for the reporting year of 2022-23			
	302-3 Energy intensity	26, 49			
	302-4 Reduction of energy consumption	51, 52, 53			
	302-5 Reductions in energy requirements of products and services	No significant reductions were recorded for the reporting year of 2022-23			
GRI 306: Waste 2020	306-2 Management of significant waste-related impacts	34 to 40, 46, 54			
<b>Local Community Development</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	58 to 71			
	413-2 Operations with significant actual and potential negative impacts on local communities	No negative significant actual and potential negative impacts on local communities were recorded for the reporting year of 2022-23			
<b>Training and Capacity Building</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 404: Training and Education 2016	404-1 Average hours of training per year per employee	73			
	404-2 Programs for upgrading employee skills and transition assistance programs	75			
	404-3 Percentage of employees receiving regular performance and career development reviews	No such data was recored for the reporting year of 2022-23			

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION/ RESPONSE	REQUIREMENT(S) OMITTED	REASON	EXPLANATION
<b>Community Wellbeing and Development</b>					
GRI 3: Material Topics 2021	3-3 Management of material topics	24, 25			
GRI 305: Emissions 2016	305-4 GHG emissions intensity	26, 51			
	305-5 Reduction of GHG emissions	51			
GRI 306: Waste 2020	306-2 Management of significant waste-related impacts	34 to 40, 46, 54			
GRI 413: Local Communities 2016	413-1 Operations with local community engagement, impact assessments, and development programs	58 to 71			
	413-2 Operations with significant actual and potential negative impacts on local communities	No negative significant actual and potential negative impacts on local communities were recorded for the reporting year of 2022-23			
GRI 416: Customer Health and Safety 2016	416-1 Assessment of the health and safety impacts of product and service categories	32, 33, 47			
	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	No incidents of non-compliance concerning the health and safety impacts of products and services were reported for the reporting year of 2022-23			

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**ADAR POONAWALLA**  
**CLEAN CITY INITIATIVE**



SCAN ME

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