



ECO-VISION ENVIRONMENTAL RESOURCES LLP

PLASTIC WASTE MANAGEMENT & RECYCLING



ENVIRO CIRCLE GROUP

Enviro Circle, founded in the year 2015, is a professional organization, focused in the area of Plastic waste management and Recycling predominantly through Public Private Partnership (PPP) projects. Enviro Circle has contributed in Plastic waste management and Recycling in all domains viz Collection, Transportation, Segregation and Recycling.

We at Enviro Circle also provide EPR Services to our distinguished clients across India in managing their environmental compliances arising out of manufacturing plastic products or usage of plastic derivatives in product packaging.

Enviro Circle has embarked upon the journey of managing waste plastic with D2D collections through own vehicles and safai sathi network engaging all major residential societies and commercial establishments within its jurisdiction. Extensive efforts have been made in generating public awareness towards segregation at source and direct collections.

VISION

Eco-vision shall be a leading global enterprise in plastic waste management and recycling practices to enable sustainable growth.



MISSION

Eco-vision shall ensure quality, timely and budgetary deliverances through continuous technology upgradation, thereby enhancing the value of all its stakeholders.

VALUES

At Eco-vision we follow the business Ethics and Values towards sustainable environmental solutions.

It reflects in the way we conduct our business every day.

- Integrity
- Quality, Timely and Budgetary deliverance
- Customer Satisfaction
- Environment, Health and Safety
- Innovation
- Social Commitment



MESSAGE FROM THE MANAGEMENT

Eco-vision Environmental Resources LLP, founded in the year 2015, is a professional organization, focused in the areas of Plastic waste management, Recycling and Extended Producers Responsibility compliances predominantly through Public Private Partnership (PPP) projects with the Urban Local Bodies.

At Eco-vision, we believe that sustainable development is the key to success and we have aligned ourselves to this mission. Our goal is much beyond generating wealth and value for our stakeholders; we dream of a society where development does not come at the cost of environment. Our teams of committed professionals are pro-actively working towards a cleaner and greener world. Operationally, the focus continues to remain on Quality, Timely and Budgetary deliverance while ensuring Safety, Health and Environmental standards with clean and green operations.

Eco-vision's success is the result of the enormous contribution from each and every individual associated with the company, our partners in the business, Governments and the Regulatory Bodies. We greatly value the contribution from every individual in our efforts towards engineering an enriching environment.

We take pride in our work culture, values and ethics and we shall keep striving and innovating to ensure sustainable growth across sectors. The Company has set its sight high, with aggressive growth plans, strategic partnerships, appropriate technologies and committed resources to emerge as a global leader in its chosen area of activity. We welcome all our potential partners to be a part of this challenging and rewarding journey.

GROUP COMPANIES

- Eco-vision Environmental Resources LLP
- Eco-vision Environmental Resources (Vadodara) LLP
- Eco-vision Environmental Resources (Ahmedabad) LLP
- Eco-vision Water Recycling (Ahmedabad) LLP
- Eco-vision Circle Environmental Resources LLP

PLASTIC WASTE MANAGEMENT & RECYCLING

Circular Economy

The utilization of plastic across the world has been increasing steadily by CAGR of 10% every year. In 2020, India's consumption of virgin plastics had reached a record figure of 20 MMT (Million Metric Tons) whereas for recycled plastics it was just around 8 MMT. This amply highlights the importance of recycling and recovery of the plastic waste in the overall economy of plastics. The annual per capita utilization of plastic in India is 13 kgs. Circular economy has steadily been gaining salience in view of it making the optimal use of product and process life cycles while embedding it seamlessly into supply chain ecosystems.

Plastic Waste Management Rules, 2016 (amended as PWM Rules, 2022)

The Plastic Waste Management Rules, 2016, were notified on 18 March 2016 for effective implementation and to provide thrust on plastic waste minimization, source segregation, recycling, involving waste pickers, recyclers and waste processors in collection of plastic waste fraction from households and bulk generators. These rules also adopt "Polluters Pay" principle for sustainability of the waste management system.

The Plastic Waste Management Rules, 2016 also mandate an Extended Producer's Responsibility on Producers, Importers, and Brand Owners on both pre-consumer and post-consumer plastic packaging waste. These guidelines provide framework for implementation of Extended Producer's Responsibility as also the roles and responsibilities of Producers, Importers, Brand Owners, Central Pollution Control Board, State Pollution Control Board or Pollution Control Committees, recyclers and waste processors for effective implementation and management of waste plastic disposal.

About Eco-vision Environmental Resources LLP.

Eco-vision Environmental Resources LLP, established in 2015 as an SPV of Envision Enviro Technology Pvt Ltd, is a leading plastic waste management agency headquartered at Surat, Gujarat. Eco-vision integrates all the stakeholders involved in citywide plastic waste value chain and provides end to end solution for management of urban plastic waste challenges.

The Surat Plastic Waste Recycling facility commenced operations in 2017 under a Public Private Partnership (PPP) contract with Surat Municipal Corporation. The company has currently extended its footprints in other major cities of Gujarat namely Vadodara, Ahmedabad and Gandhinagar under PPP contract with the municipal corporations for a twenty (20) year period. The Concession Agreement lays down the guidelines for a scientific and economically sustainable management of waste plastic.

Eco-vision has engaged all stakeholders of the plastic waste value chain such as aggregators, safai sathi, recycled granule buyers and the packaging industry for recycling of the plastic waste. The value chain comprises of over 500 safai sathi, 70 plus Producer brands, 4 valued channel partners and the regulatory bodies.

The Surat Plastic Recycling facility has come up as a role model for sustainable recycling and has been accredited as an important centre for learning and development for the professionals involved in this industry. Eco-vision is committed to building a greener, cleaner and waste plastic free environment for the future generations.

Eco-vision Environmental Resources LLP is currently managing and recycling 38% of Gujarat's plastic waste every month. Gujarat itself generates 11% of plastic waste as per the national average thus positioning Eco-vision as one of the largest plastic waste management and recycling agencies in India.



ECO-VISION'S ONGOING PROJECTS.

YEAR	PROJECT	TYPE OF PARTNERSHIP	STATUS	PARTNER ULB
2017	Surat	BOOT, PPP For 20 Years	Collecting 3000MT/Month and Recycling around 2500MT/Month	SMC
2019	Gandhinagar	PPP for 10 Years	Collection value chain of 300 MT/Month established	GMC
2020	Vadodara	BOOT, PPP For 20 Years	Collecting 2000MT/Month with Recycling around 1500 MT/ Month	VMC
2020	Ahmedabad	BOOT, PPP For 20 Years	Established collection value chain processing facility under construction	AMC

SURAT PLASTIC RECYCLING FACILITY

Surat plastic recycling facility was established under a PPP contract with Surat Municipal Corporation in 2015. The commercial operations commenced from 2017.

The plant is equipped with the latest and state-of-the-art machinery with fully automated production process. It caters to recycling / processing of almost all categories of waste plastic.

The current production levels of recycled plastics at the Surat facility have reached 2500 MT per month and growing. Additional machinery is being deployed to meet the growing demand.



GANDHINAGAR PLASTIC WASTE MANAGEMENT PROJECT.

A PPP contract has been inked with the Gandhinagar Municipal Corporation in 2019 for Collection and Management of the generated plastic waste. This waste shall be recycled at the Ahmedabad plant once it becomes operational. Collection & Scientific disposal of plastic waste is under progress.



VADODARA PLASTIC RECYCLING FACILITY

Vadodara plastic recycling facility was established under a PPP contract with Vadodara Municipal Corporation in 2020.

Vadodara plastic recycling facility has the singular honour of having been e-inaugurated by the Hon'ble Prime Minister of India, Shri Narendra Modi on 18 June 2022.

The Vadodara plant has an installed capacity of generating recycled granules up to 3000 MT per month.

Cutting edge technology machines have been deployed at the Vadodara facility.



AHMEDABAD PLASTIC RECYCLING FACILITY.

A PPP contract has been inked with the Gandhinagar Municipal Corporation in 2019 for Collection and Management of the generated plastic waste. This waste shall be recycled at the Ahmedabad plant once it becomes operational. Collection & Scientific disposal of plastic waste is under progress.

Services Provided by Eco-vision Environmental Resources LLP

Eco-vision Services

- PWM Consultancy
- EPR Registration with CPCB under PWM 2016 Rules as PIBO.
- Designing an Action Plan.
- Preparation of Compliance Report.
- Submission of Annual Return.
- Circular Economy & Zero Plastic waste to Landfill Certification.
- IEC Activities & Awareness Drives.
- R&D on PWM Techniques.



Achievements and contribution of Eco-vision Environmental Resources LLP

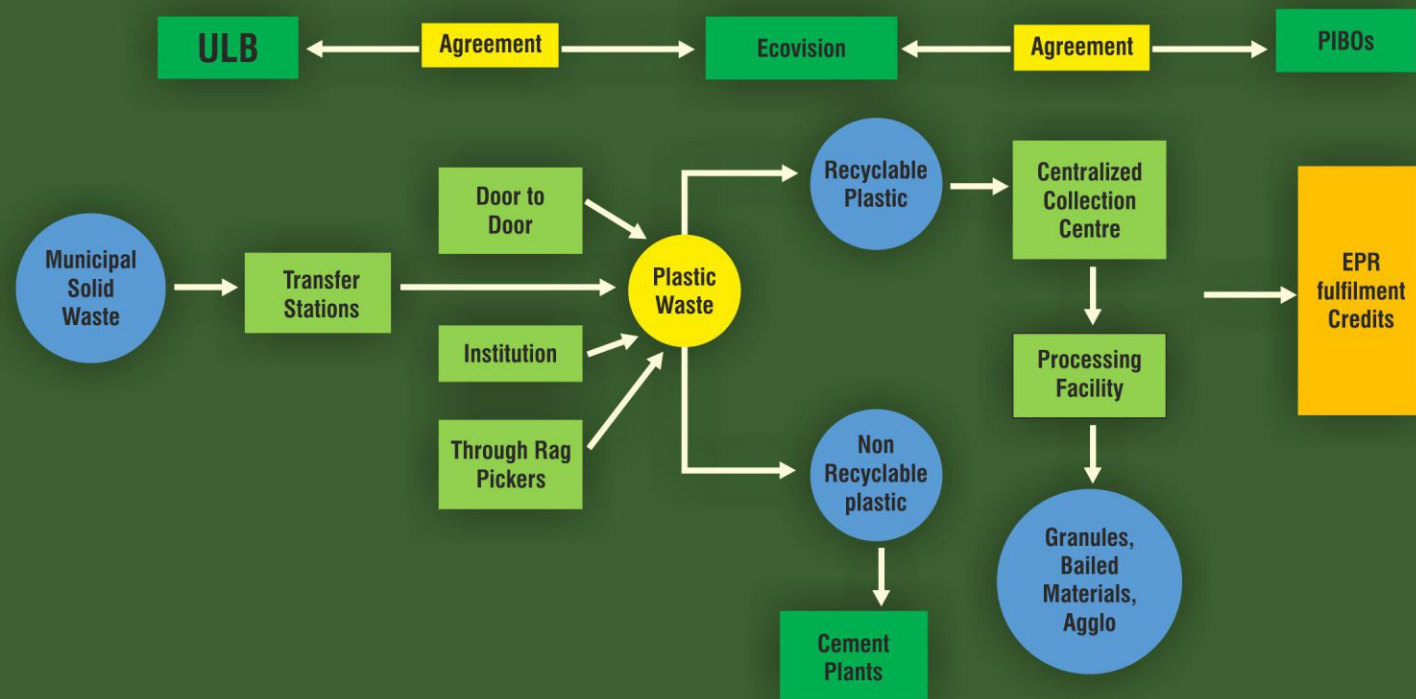
- Partnering the Three among Top 10 Municipal Corporations as per Swachh Survekshan rankings - 2019, 2020, 2021.
- Mentioned as a leading example of value chain of plastic waste integration in Urban areas of Surat Project in UNDP NITI Aayog's Handbook for Urban Plastic Waste Management-2021
- Integrated 1400 plus Safai Sathi in the formal economy with a daily PW collection of 300 MT.
- Two Global Partnerships for Surat Plastic Waste Mgmt project ---- UNDP in India and ICLEI South Asia.



Complete Supply Chain Solution
(Collection, Transport, Segregation & Recycling)

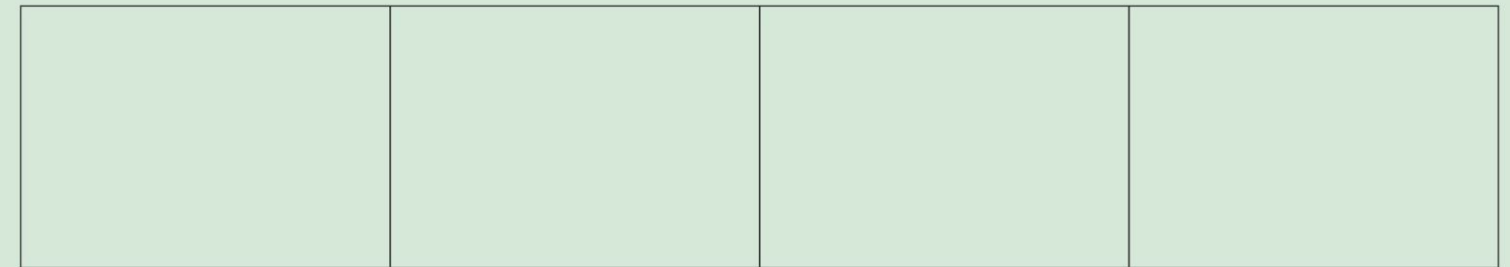
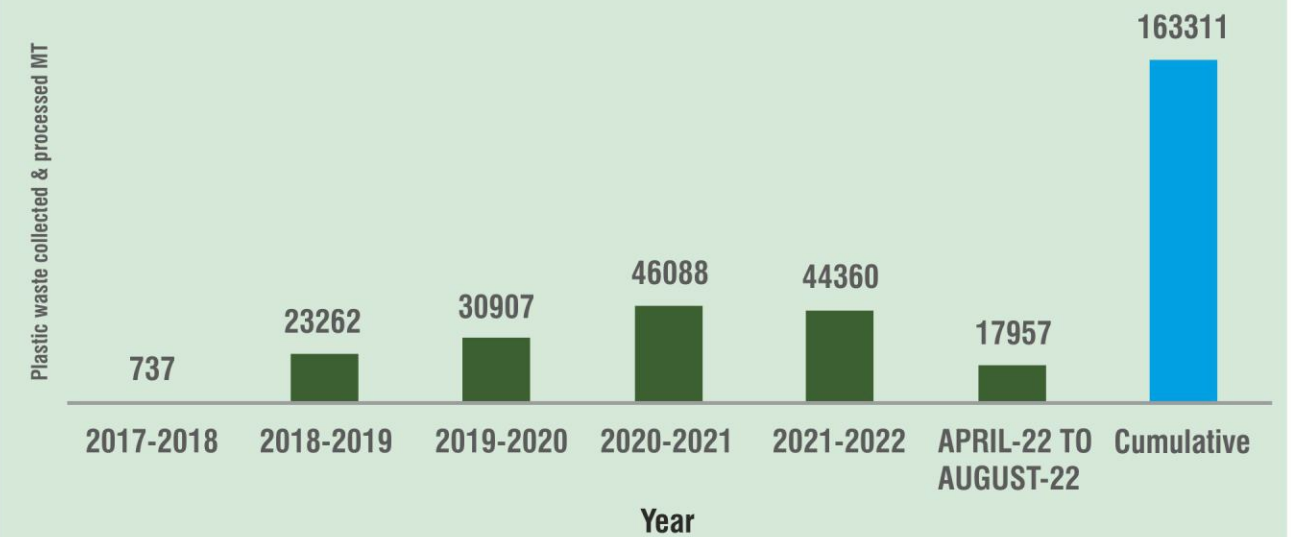
Social Inclusion

Public Awareness



ECO-VISION JOURNEY

Plastic waste collected & processed by Ecovision



Old Photos add

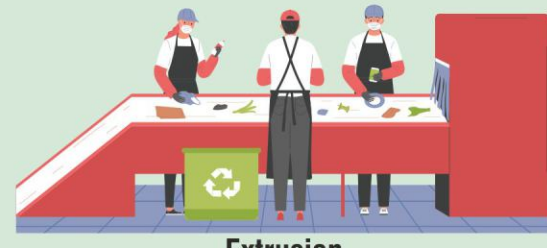


WASTE PLASTIC RE-CYCLING PROCESS

- The inflow waste carrying vehicle is weighed at the weighbridge.
- The incoming waste is recorded daily in manual and digital systems.
- The waste is then unloaded at designated points at the sorting facility.
- The waste is finally sorted or segregated on a conveyor belt.
- The Sorted material is then transported to Eco-vision our facility.



Raw Material
[Sorted Plastic Waste]



Extrusion
(Granules)



Category wise Sorting
[PP/LD/HD/HM/MLP/PS]



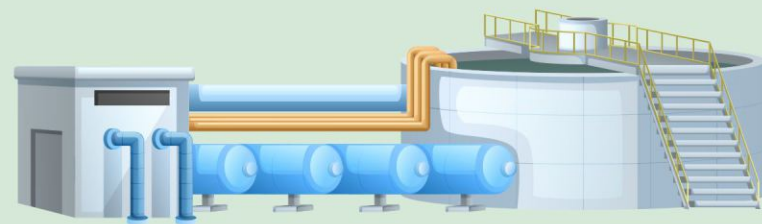
Agglomeration



De-dusting



Drying



Primary Washing



Shredding / Washing

INFORMATION, EDUCATION & COMMUNICATION ACTIVITIES.

Eco-vision has cultivated a trained and dedicated team of young change makers who work towards informing, educating and communicating to citizens for promoting better waste management practices such as source segregation, better hygiene and sanitation culture, maintenance of public health and assist the municipal bodies in generating disease vector awareness through different types of activities. Eco-vision partners the ULBs for IEC activities during the public events such as:

- Annual day functions at school, colleges etc.
- Festival Gatherings.
- Public Events like Marathon, Music & Cultural Events, Garba Nights etc.
- Sporting Events.
- Exhibitions and Equipment Displays.
- Conduct of Street plays.
- Sanitation Awareness Rally by Citizens and School Children.



EXTENDED PRODUCERS' RESPONSIBILITY

Eco-vision coordinates with Producers, Importers and Brand Owners in implementing Plastic Waste Management Rules 2022 and provides end to end solutions for EPR credit transactions. Eco-vision is Collection Partner and Recycler of plastic waste and provides the following services towards EPR liability mitigations: -

- EPR Registration with CPCB under PWM Rules 2016 as PIBO.
- Designing an Action Plan.
- Preparation and Submission of Compliance Report.
- Submission of Annual Return.
- Circular Economy Consultancy and Zero plastic waste to Landfill Certification.
- EC Activities and Awareness Drives.

SUPPORT ANTICIPATED FROM THE URBAN LOCAL BODY

- Allocate suitable land of area 2 - 4 Acre for construction of recycling facility.
- Make provision for supply of water, electricity and road up to recycling facility.
- Allocate suitable space in RTS to establish collection centres.
- Issue Authorization certificate for operation of each collection centre.
- Facilitate suitable land for storage and sorting of plastic; set up Up-Cycling facility.
- Assist in source segregation to facilitate sorting of waste plastic as per category.
- Strictly prohibit any other person/agency to operate/work/establish facility for collection of plastic waste within the ULB's municipal limits.
- Sharing of benefits achieved on account of plastic waste management by the ULB with the recycler.
- Provide assistance in expediting the process in obtaining permits and licenses.
- Implement strict implementation of Plastic Waste (Management & Handling) Rules, 2022, duly exercising the powers given under the rules.
- Formulate the requisite by-laws under the provisions of Plastic Waste (Management & Handling) Rules, 2022 and ensure their implementation.



ACTIVITIES UNDERTAKEN BY ECO-VISION.

Mandatory Scope of Supply:

- Design & Construction of Civil works, Foundation of all equipment etc.
- Shed for housing complete system with roof & side walls
- Power Supply to Panels along with proper Earthing
- Input Material storage, drying, shredding & conveying up to unit feeding point
- Disposal of un-used / inert material
- All Utilities (Power, Water, Compressed Air, etc.) required for assembling, erection, testing, commissioning & Operation of complete package.
- FG Inventory & its sales / utilisation
- Transportation of equipment from designated vendor to Site & Safe Unloading.
- Operation & Maintenance of pre-processing of Plastic waste and plant.
- Any other equipment / service not mentioned in scope of supply.

Documentation Scope:

- GA layout of Complete Package
- SOP for plant safety and operation
- SOP for maintenance
- Logic creation for ERP at each point of collection and process
- Inventory maintenance
- Foundation Layout with Load Data
- Pipeline & Instrument Drawing (P&ID)
- Panel Drawings (GA, Wiring Diagrams, etc.)
- Internal Testing Certificates
- Material Test Certificates (As Applicable)
- Operation and Maintenance Manual

KEY CLIENTS



ULB Partnerships



Eco-vision Environmental Resources LLP

Survey No. 12, 13, Near Torrent Power Sub Station,
Bhatar - Bamroli Road, Bhatar, Surat – 395017 (Gujarat).
Phone: 0261 2223002 | Help line: 1800 2333002
Email : info@eco-vision.co.in
Website: www.eco-vision.co.in

