

SOLID WASTE MANAGEMENT PROFILE

From Concept to Commissioning



PRESENTED BY



in association with

Envisol

POWERED BY **ARVIND**

Technology Partner

Building a Sustainable Future

Delivering what we promise when
we promise it, is not just a goal for us,
ITS A WAY OF DOING BUSINESS

VISION

To emerge as a global consulting player in infrastructure projects, and play a vital role in the digital transformation of the construction industry, both domestically and globally by 2030.

MISSION

Our mission is to offer technology driven high quality services with efficiency and speed.



MaRS, established in the year 2001, is a leading consulting service provider in the field of infrastructure across India as well as in selected countries of Middle East, Europe and USA.

We at MaRS are firmly focused on the upcoming opportunities and are well aware of the challenges. We strive to fulfill our commitment on priorities i.e. addressing challenges of ecological climate and energy transition, overcoming challenges of digital transformation and pursuing to strengthen domestic business and to spread our footprint globally. We, through our highly skilled manpower, shall continue to provide services towards sustainable infrastructure for future generations.



Mr. Shailesh Patel
Chairman & Managing Director
MaRS Group

About MaRS Group

ORIGIN

MaRS was established in 2001 to provide integrated planning, comprehensive design, construction engineering & project management services for large scale infrastructure projects. Today we are one of the leading consultancy service provider in the Indian sub continent offering high quality services in a time bound & cost effective way.

CORE BUSINESS

MaRS has the capacity & capability to meet the increasing demand of various industries with better skills, technology, knowledge and creativity. Our economic progression is the result of following key business and services-

- Feasibility Studies
- Planning & Advisory Services
- Design & Construction Engineering
- Project Management Consultancy
- Construction & Quality Monitoring
- Laboratory & Testing Services
- Third Party Inspection Services
- Research & Evaluation Studies
- Industrial Automations
- Building Information Modeling (BIM)
- GIS and Remote Sensing Services
- Surveys & Investigations

GROUP SUBSIDIARIES

After more than 20 years of continuous development, starting up new specialized companies and the takeover of competitive companies, MaRS has evolved into a strong capital group with an established position in the Indian market. The business interest of our group is diversified into key subsidiaries as under-

MaRS MaRS Planning & Engineering Services Private Limited

- MaRS Enviro Research & Engineering Services Private Limited
- MaRS Planning & Engineering Services International Private Limited
- MaRS Greentech Infra Ventures
- Futuristic Trans India Development Private Limited
- FSI Development Private Limited

NETWORK

Our branch offices play a key role in supporting our customers in a time bound and cost effective way. We are rapidly augmenting our operations network for expanding our core business across continents. Headquartered in the city of Ahmedabad, today we operate 12 offices covering 23 states across India and 5 international offices for serving Middle East, Europe and USA regions globally.

SECTORS WE SERVE

We have accumulated the requisite experience and resources to undertake any projects of any scale and complexity. It took a lot of hard work & dedication to become one of the leading players in providing reliable and expert consulting services for the following key sectors-

Infrastructure Development

- Land development
- Buildings
- City Development
- Industries
- Energy & Power
- Transportation
- Tourism
- Digital Infrastructure

Environment Improvement

- Water Supply
- Waste Water
- Solid Waste
- Faecal Sludge
- Storm Water
- Rivers & Lakes
- Urban Slums
- Urban Heritage

RESOURCES

We have an unmatched experience, capabilities and track record to meet the wide-ranging needs of diverse industries. We help our clients throughout the project cycle, from planning to design, permitting, implementation, operation & management.

We have a large workforce of designers, planners, engineers, managers & technical specialists working across every aspect of today's built environment.

We have a large network of manufacturers and sub contractor with a demonstrated high skill levels that match the services to be provided to the clients.

We offer integrated & one stop expertise from Concept To Commissioning to governments, multilateral organisations, philanthropic, international financing institutions, private sector owners, contractors & Non Government Organisations (NGO)

OUR FOOTPRINTS OF GROWTH

20+
Years of
Experience

\$ 5 Billion+
Worth of Project
Completed

2000 +
Projects
Completed

200 +
Clients
Served

1000 +
Employee
Strength

23 +
States Served
In India

30 +
Countries
Served

12 +
Indian
Offices

5 +
International
Offices

50 +
Registrations with
Government



OUR COMMITMENT

We are committed to deliver high-impact results to clients, helping them to rationalize investment, create value, improve performance, manage growth, achieve economic & financial sustainability, and incorporate social & environmental sustainability considerations.

We are committed to continually improving our professional consulting services to meet and exceed the needs of our clients.

We commit to deploy a dedicated team of professionals for every project to be undertaken for rendering quality service.

OUR STRENGTH

**Leaders
in Market**
with technology
driven solutions

**Innovative
Solutions**
for any new and
unexpected problem

**High Skilled
Professionals**
are our top asset

**Global
Experience**
to accept any task

REGISTRATION AND PROFESSIONAL MEMBERSHIP

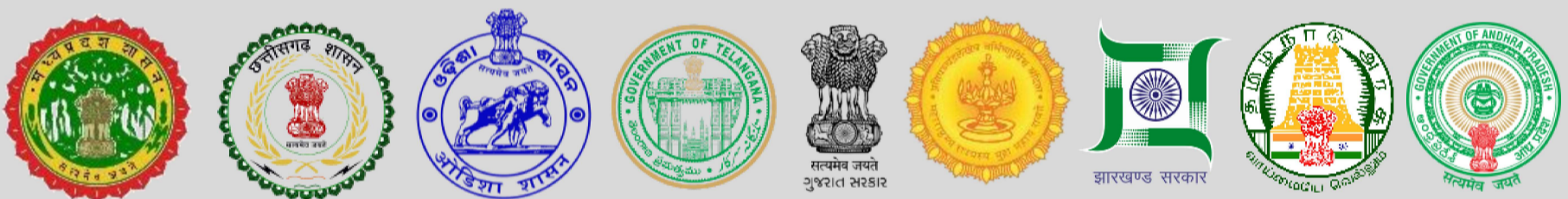


KEY EMPANELMENTS

National Level



State Level



Government of Madhya Pradesh

- Madhya Pradesh Public Works Department
- Madhya Pradesh Jal Nigam Maryadit
- Urban Administration & Development Department
- Madhya Pradesh Urban Development Co. Ltd.

Government of Chhattisgarh

- Public Health Engineering Department
- Urban Administration & Development Department
- State Urban Development Authority (SUDA)

Government of Odisha

- Bhubaneswar Development Authority
- Odisha Urban Infrastructure Development Fund

Government of Telangana

- Hyderabad Metropolitan Water supply & Sewerage Board

Government of Jharkhand

- Jharkhand State Rural Road Development Authority
- Jharkhand Urban Infrastructure Development Co. Ltd.

Government of Tamil Nadu

- Tamil Nadu Infrastructure Financial Services Ltd.

Government of Rajasthan

- Department of Urban Development

Government of Maharashtra

- Urban Development Department
- Maharashtra Urban Infrastructure Development Ltd.
- Maharashtra State Police Housing & Welfare Corp. Ltd.
- Maharashtra Jeevan Pradhikaran

Government of Gujarat

- Gujarat Water Supply & Sewerage Board
- Gujarat Urban Development Company
- Gujarat Urban Development Mission
- Urban Development Authority of Ahmedabad & Surat
- Gujarat Industrial Development Corporation
- Tourism Corporation of Gujarat Limited
- Gujarat Maritime Board
- Gujarat Water Infrastructure Limited
- Gujarat Infrastructure Development Board
- Municipal Corporation of Ahmedabad, Surat, Rajkot, Vadodara & Junagadh

Government of Andhra Pradesh

- Rural Water Supply & Sanitation Department

Government of West Bengal

- Urban Development & Municipal Affairs Department

Government of Karnataka

- Directorate Of Municipal Administration (DMA)

About MaRS Greentech



MaRS Greentech infra ventures is a subsidiary of Mars group established in 2021 for constructing world class waste management infrastructure matching global standards in a time bound, cost effective & innovative way. Our vast experience, large workforce, exhaustive client base, ISO certifications, R&D facilities with NABL accredited labs has set the platform for MaRS Greentech to undertake any kind of waste management projects.

MaRS Greentech offers a wide gamut of solid & liquid waste management solutions. Our expert engineers and technicians backed by two decades of proven expertise in design, engineering, construction & management can customize solutions to suit exact requirement.

Our key focus for solid & liquid waste management are as under-

- Feasibility study, Design, Engineering and Project Management for Waste Management Projects
- Solutions for waste collection and transportation
- Development, construction and operation of waste processing plants.
- Construction and operation of Landfill facilities.
- Remediation Services for Legacy Waste & Urban Lakes.
- Solutions for Process Automations.
- IoT and Realtime enabled Services for operation supervision & Monitoring



At MaRS Greentech, we anticipate to provide a complete range of waste management services on a "Cradle-to-Grave" approach. To our knowledge, this is the first time in our industry and region that a consulting organization of our capacity has brought construction in-house to offer truly integrated design & construction services.

Besides delivering full fledged services for waste management projects, we also ensure the fulfillment of environment & financial sustainability.

Jay N. Padalia
CEO & Director
MaRS Greentech Infra Ventures



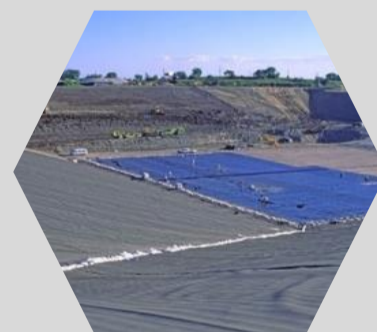
Waste Collection & Conveyance

- Waste characterization & quantification studies
- Micro planning & GIS routing design for cities
- Planning for Decentralized collection & conveyance systems for cities or region
- Design & construction supervision for waste transfer stations
- IoT enabled online monitoring for daily waste collection & transportation systems



Waste Processing

- Process engineering, design & project management for waste to compost plants, waste to energy plants, Biomethanation plants, specialised plants for biomedical waste, Plastic waste, E-waste, C&D waste etc.
- Design for decentralized processing systems
- Daily supervision & reporting on operations of processing plant



Waste Disposal

- Geotechnical and soil investigations surveys
- Design, supervision & project management for construction of Engineered Sanitary Landfill & Industrial secured landfill sites.
- Environment impact assessment (EIA) studies
- Daily supervision & reporting on operations & maintenance of landfill sites



Waste Remediation

- Surveys for quantity estimation for legacy waste
- Design, supervision and project management of bioremediation, biomining projects for disposal of legacy waste & Land reclamation as per prevailing regulation
- Equipment design for Plant and machineries
- Daily supervision & reporting on weighing and disposal operations

KEY ACHEIVEMENTS IN WASTE MANAGEMENT

Experience of

10+

Years

Our Solid Waste Management services has supported

250+

Towns

6+

Million Plus Cities

6+

States in India

Supported in implementation of waste management projects worth

Rs. 2000

Crore +

Our planning, design & engineering support has helped managing about

10000 + ton/day waste

Services provided for Disposal of Legacy Waste of

15 Lakh+

Metric Ton

Waste to Compost services supported in

200+

Towns

Waste to Energy services supported in

25+

Towns

Planning to Commissioning Support for Waste Management in

90+ Towns

Supported in management of about

1500 +

ton/day plastic waste

Realtime IoT enabled Service Support for Daily Monitoring of Waste Collection & Transportation for

3 Lakh+ Metric Ton



RELEVANT EMPANELMENT

- Technical Assistance for DPR preparation for Solid Waste Management under Swachh Bharat Mission in Ministry of Urban Development, Government of India.
- Design Engineering & Project Management for Waste Water Management, Storm Water Management & Water Supply in Ministry of Urban Development, Government of India
- Technical Assistance for Solid & Liquid waste management under Swachhh Bharat Grameen in Rural Development Department, Government of Madhya Pradesh & Gujarat
- Support for implementation of all types of Solid Waste Management Projects under Swachh Bharat Mission (U) 2.0 in Urban Administration & Development Department, Government of Madhya Pradesh

Our Technology Partner

INTRODUCTION

Arvind Ltd., a part of the US \$ 1.7 Billion Lalbhai Group was incorporated in 1931 is in the businesses of Textiles – fabric & garment manufacturing, Branded apparel & Retail, Environment Solutions, Agriculture, Engineering and Real Estate.

Established in 2011, Arvind Envisol Ltd. is a wholly owned subsidiary of Arvind Ltd. in the field of environment solutions.

Arvind Envisol provides end to end solutions for water treatment, waste water treatment and solid waste management solutions at minimal cost.

Few of our activities of business are-

- | | |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none">▪ Infrastructure projects practices on EPC as well as on BOOT basis▪ Design, engineering, sourcing & delivery |
|  | <ul style="list-style-type: none">▪ Plant upgradations & expansions▪ Offerings to clients and partner OEMs through supply of components, consumables & spares▪ Plant O&M and AMC |
|  | <ul style="list-style-type: none">▪ Laboratory & Testing Services▪ Research & Evaluation studies▪ Knowledge Practice through Training, Collaborations & skill development |



Arvind Envisol Ltd. is uniquely established as a comprehensive environment solution providing company. In current times, waste management is a severe challenge faced by our society and Envisol is beginning now to contribute to solve this issue by undertaking waste management projects and setting niche technologies.

With MaRS Greentech Infra Ventures, we want to become a prominent global players not only for water but also for solid waste management globally.

Mr. Dinesh Yadav
CEO & Director
Arvind Envisol Ltd.

EXPERIENCE

AEL has accumulated the requisite experience and resources to undertake any projects of any scale & complexity. Few of AEL's contribution towards environment sustainability are-

- More than 100 projects of Package Sewage Treatment Plant ranging upto 600 KLD in Municipal, Industrial, Institutional, Residential Sectors across India for treatment, recycle & reuse of treated water.
- Generating more than 7 Million cubic meter of BioGas from wet organic waste annually.
- Recycling more than 2000 Ton Plastics annually
- Approval of all the waste management products from various Government bodies / PSUs.



100+
million litres water & waste water processed per day



150+
Project executed till date



38
Registered Patents across the globe



END TO END
Offerings in the entire environment chain

STRENGTH

- Single window for best globally available technologies across entire environment spectrum (either through own patents or licensed partners)
- Extensive environmental technology portfolio along with in house research & development
- Experienced plant operator
- Multinational experience, which ensures an understanding of different local and global needs
- Strong team of over 400 people ; Industry veterans, respected by customers, vendors & competitors
- Global presence and tie-ups
- Create wealth for our shareholders
- Develop & deliver the best, cost effective & reliable solutions maximising value for customer.
- Provide leading edge technology and value-added convergent solutions to many industries.

AEL is a one stop place for all type of environment infrastructures projects, spares and services as per customer requirements



11 MLD Zero Liquid Discharge system at Hawassa Industrial Park, Awasa, Ethiopia



VENTURE

MaRS Greentech Infra Ventures and Arvind Envisol Ltd. has signed an agreement for creating and providing solutions related to all requirements of solid & liquid waste management infrastructures. This venture envisage to provide Consulting Services, Construction Services, O&M Services, Research & Development (R&D) Services and IoT services for the following-

- Collection & Conveyance System of "Waste" (like Door-to-door collection services, development of waste transfer stations etc.)
- Processing & treatment of "Waste" through any other suitable prevalent technology and subsequent marketing /trading of the derived by-products obtained from processing.
- Remediation of "Waste" through any other suitable prevalent technology and subsequent marketing /trading of the derived by-products obtained from processing.
- Scientific disposal of "Waste" through construction of engineered Scientific Landfill Sites & Industrial Secured Landfills as per Government Regulations.



FOCUSSED SERVICES

We focus to support our clients for feasibility study, design and engineering, construction, start-up and commissioning, operation & maintenance for all kind of solid and liquid waste management in following forms-



Design, Construction and Development

Engineering, Procurement & Construction
(EPC Contracts)



Design, Manufacturing and Supply

Original Design Manufacturing / Supply
(ODM / ODS Contracts)



Long term Operations & maintenance

Public Private Partnership
(PPP Contracts & its variance)

KEY OFFERINGS

Collection & Conveyance					
▪ Waste Characterization & Quantification Study & Surveys	●				
▪ Micro planning, GIS Mapping & IOT enabled waste collection routes	●	●			
▪ Decentralized or regional waste collection & transportation systems	●				
▪ Waste Transfer Stations	●	●	●	●	
▪ Primary & secondary waste handling equipments & vehicles	●		●		●
Waste Processing					
▪ Waste To Compost Plants of any scale	●	●	●	●	
▪ Waste To Energy Plants based on any technology	●	●	●	●	
▪ Material Recovery Facility (MRF) for recyclable waste	●	●	●	●	
▪ Specialised waste processing plants for C&D, Bio medical, hazardous and E-waste	●	●	●	●	
▪ Decentralized waste processing plants	●	●	●	●	
Waste Disposal					
▪ Regional sanitary landfill site for disposal of inert from multiple settlements	●	●	●	●	
▪ Secured landfill site for disposal of hazardous and industrial waste	●	●	●	●	
▪ HDPE Liners, GCL & Bentonite for landfill linings			●		
Waste Remediation					
▪ Bioremediation of legacy waste	●	●	●	●	●
Other					
▪ NABL certification & testing services for raw waste, compost & landfill materials		●			●
▪ IEC, capacity building and training to sanitation workers		●			

- Research, Survey & Engineering Design
- Management, Supervision & Inspection Services
- Construction, Supply & Manufacturing Services
- O&M Services
- Equipment or Vehicle Renting Services



Supported for clearing 2 Lakh Metric Ton Legacy Waste
Amravati City, Maharashtra

SOLUTIONS FOR WASTE MANAGEMENT



Supported for construction of 100 TPD & 50 TPD MSW Processing Plant
Amravati City, Maharashtra



Solutions for Biodegradable waste

BIOMETHANATION PLANT

Biogas is a renewable energy that will globally lower CO₂ footprint, as fossil fuel consumption will be reduced. Biogas production prevents the release of methane into the atmosphere.

Biogas is an all-rounder among renewable energies. We work to ensure that our installation achieve the following key properties of biogas (with 60% methane).

1.20 kWh electric energy or **2.6 kWh** thermal energy produced by co-generators with gas piston engines per m³ of biogas

5500-6500 kcal/m³ calorific value

0.70 kg/m³ density

650-750°C burning point

86x

Global warming potential of 1 ton Methane emissions (20 year horizon) compared to 1 ton CO₂, underlining the need to focus on methane capture

2%

Of global waste currently being used in biogas production. So 98% of usable food, animal, sewage and crop waste is potentially available

12%

Potential reduction in global greenhouse gas emissions - that is about 4 billion tons CO₂ equivalent - if all waste suitable for biogas was digested



Integrated Design Experience

We have an unmatched experience of planning & designing integrated waste management systems. We have provided consulting services to more than 250 towns & cities in India.

One Stop Supply

We deliver everything from one source. From design, supply of plant components, assembly, start up, biological support to after sales service.

Engineering & Construction

Our integrated experience allows us to offer the best solution for processing of waste ranging from few Kilos to more than 50 Ton per day into biogas for various industrial applications.

Waste Collection

We have vendors & network across India for dedicated collection of waste required and ensure steady supply for running our plants

Turn Key Approach

We provide all kind of services of the highest possible quality to our client right from concept development till the successful commissioning of plant.

OUR ADVANTAGE

Byproduct Sales & Marketing

We support our clients for selling, marketing and branding of the byproducts generated for achieving financial viability of projects.

Manufacturing & Supply Capabilities

We manufacture & supply high quality of biogas equipment with over **41000 supply & installations** experience in India.

Decentralized Plants

Our unique decentralized model can help group of small towns or small settlements in big cities to produce heat, power, fuel & fertilizer.

Remote Monitoring

All our installations come with fully automatic SCADA operated systems which makes easy to remotely monitor the plant & process.

We offer to create biogas facilities which do work and produce heat, power, fuel & fertilizer.

Industries Serving

We cater our services to a wide range of industries like sugar mills, breweries, starch mill, municipal sewage & solid waste, cattle farms & many more.



Thermal Applications



Power Generation



Biofuel Production



Fertilizer Manufacturing



OUR PRODUCT OFFERINGS



Portable Biogas Plant

We offer portable Biogas plants upto 2 Ton per day waste processing capacity to treat organic wastes like canteen waste, poultry waste, cow dung etc. These plants are plug & play models & easy to operate.



Biogas Plant for WWTP

We supply highly efficient & proven turnkey sludge biogas plants that can treat sludge & produce biogas. Our plants can turn any Wastewater Treatment Plant (WWTP) into an energy provider.



For Electricity Generation

We offer to supply plants with operation & maintenance of large and medium capacity projects ranging from 2 ton per day to 200 ton per day for power generation for municipalities & large institutions.



Anaerobic Digester Types

We can design, manufacture, supply and install various types of anaerobic digesters like continuous stirred tank reactor (CSTR), single or two stage anaerobic digesters and fixed dome type digester.



For Heating Applications

We assist clients to install plants that generates heat and can be used for various applications like boilers, gas engines, micro turbines, fuel cells, & for all type of Industrial or commercial use.



Digester Material

We can supply digester made of Stainless Steel or Mild Steel with epoxy/ fibre coating, reinforced concrete cement (RCC), fibre reinforced plastic (FRP) & glass fused-to-steel (GFS) materials.



For Auto & Industrial Fuels

We assist clients to install plants that generated gas which can be purified and converted into Compressed Biomethane Gas (CBG). The CBG can be used as fuel for transportation or industries.



Gas Holder Material

Our gas holders come for any kind of gas pressure conditions. We provide a wide range of materials like Fibre Reinforced Plastic (FRP), Tarpaulin, Double Membrane gas holders, Mild Steel or Stainless Steel.



PROM Manufacturing

Phosphate Rich Organic Manure (PROM) is an emerging organic biofertilizer and a better alternative compared to traditional fertilizer. We are licenced holder of PROM manure manufacturing facility.



Gas Purification Systems

We offer purification systems that are economical, highly efficient and ensure high energy and environmental performances. Our technology innovations leads to ensure higher gas productions.

Landfill Gas (LFG) Recovery

Sewage Treatment Plants

Municipal Solid Waste

Fruit & vegetable Industry

Sugar & Ethanol Distillery

Cattle & Dairy Industry

Green Food Waste

Solutions for Mixed waste

INTEGRATED PLANT

Our Integrated Solid Waste Management (ISWM) solutions provide a modern and systematic approach to solid waste management. Our designed system can handle all aspects of complete waste segregation, collection, composting, recycling and disposal systems for our clients.

We have the expertise in designing integrated plants ranging from 10 TPD to 1000 TPD (ton per day). We offer to create integrated facilities which do work and produce compost and fuel for industrial applications.



Comprehensive Solutions

We offer complete separation solutions for all kinds of mixed waste. Our integrated plants are capable enough to give the best quality output for achieving financial sustainability.

Commitment for Environment

We are committed to deliver high-impact results to clients, helping them to rationalize investment, create value, improve performance & achieve environment sustainability.

Good Track Record

We have an unmatched experience, capabilities and track record to meet the wide-ranging needs & requirements of waste management in India.

OUR ADVANTAGE

Concept to Commissioning

Managing, improving, protecting & restoring the environment are integral part of our business. We offer an integrated & one stop expertise from concept to commissioning.

All Kind of Support Assured at One Place

We commit to help our clients throughout the project cycle, from planning to design, permitting, implementation & management and create value engineered project.

We offer services right from consultation, design, construction, installation, testing, commissioning & Operation for all kind of waste management infrastructure.

Low Cost Assured

We work for our customers to provide all kind of services at competitive prices, with an overall goal of reducing the overall cost of client.

Experienced Team

We house team of engineers & architects who have designed and built many sophisticated civil construction projects.



OUR PRODUCT OFFERINGS

Aerobic Windrow Composting for Wet Waste

We offer to design and install processing plants based on windrow technology which receives mixed waste from 5 tph upto 50 tph. Our system include construction of tipping floor, presorting machineries, windrow formations & turning, curing systems, compost manufacturing, leachate treatment, civil works & laboratory testing facilities.



Material Recovery Facility for Recyclable

We offer to design and install material recovery facility (MRF) to recover & process dry recyclables from mixed waste. Our MRF technology include state of the art processing equipment consisting of conveyors, trommel, screens, sorting stations, ballistic screens, ferrous & non-ferrous separators, optical sorters, bag breaker and balers.



C&D Waste Processing

We offers solutions processing of construction & demolition waste of various capacity. Our plant consist of system for crushing, separation, sieving & byproduct generation. All our installations are customized based on the quantities, type of materials and byproducts to be derived.



Refuse Derived Fuel (RDF)

RDF has a potential to be used for power generation. We design & supply RDF plant from 300 MT to 1000 MT per day capacity for generating RDF from mixed waste using processes like washing, homogenizing, drying, segregation, crushing, density separation, size reduction & densification.



Leachate Treatment

We offer range of services like plant design, build, install, commissioning & operations of plants for treatment of leachate generated at processing site.



Biomass Briquetting Plant

We can supply briquetting & pressing machinery for all kind of horticulture waste. The generated briquets can be used in boilers & cement clinkers.



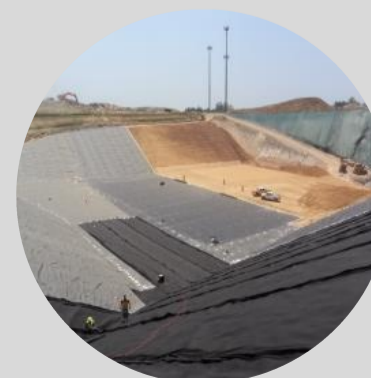
Bioremediation of Legacy Waste

We offer separations solutions for clearing old dump waste as per requirement. We can install machinery that can separate material ranging from 4 MM to 300 MM size & capacity ranging upto 2000 MT per day along with resource recovery system.



Scientific Landfill Site for Disposal of Inert

We have a capacity to plan, design, construct & operate scientific landfills of any scale as per SWM rules 2016. We supply HDPE Liners, Geosynthetic Clay Liner (GCL) & Bentonite for landfill linings for top and bottom covers



Project References

Waste Collection & Transportation Design	Composting Plants for Mixed Waste Processing	C&D Waste Processing Plant
	Material Recovery Facility (MRF) for Recycling	Scientific Landfill site Design
	Waste to Energy Plant for Waste Processing	Legacy Waste Disposal

No.	Services	State	Project	Client	Locations	Capacity	Project Value
1	FS + DE	Gujarat	Implementation of integrated solid waste management for Surat City under JNNURM programme	Surat Municipal Corporation	Surat	<~ 1500 TPD + Waste Generation	~Rs. 53.00 Crore
2	FS + DE	Gujarat	Implementation of integrated solid waste management for Rajkot City under JNNURM programme	Rajkot Municipal Corporation	Rajkot	<~ 700 TPD + Waste Generation	~Rs. 43.00 Crore
3	FS + DE	Madhya Pradesh	Implementation of integrated solid waste management for towns abutting Narmada River under National River Conservation Plan of Government of India under World Bank Funding	Urban Administration & Development Department, Government of Madhya Pradesh	8 towns	~ 90 TPD + Waste Generation Barwani ~30 TPD Mandla ~15 TPD Shahpura ~10 TPD Dindori ~10 TPD Anjad ~10 TPD Amarkantak ~5 TPD Omkareshwar ~5 TPD Kasrawad ~5 TPD	~Rs. 24.00 Crore
4	FS + DE	Jharkhand	Implementation of integrated solid waste management for Ranchi city	IL&Fs Infrastructure Development Corporation (Iidc)	Ranchi	<~ 600 TPD + Waste Generation	~Rs. 76.00 Crore
5	FS + DE	Jharkhand	Construction of Waste Processing Plants and Scientific Landfill site for Dhanbad city	IL&Fs Infrastructure Development Corporation (Iidc)	Dhanbad	<~ 400 TPD + Waste Generation	~Rs. 25.00 Crore
6	FS + DE + BD	Madhya Pradesh	Implementation of integrated solid waste management (ISWM) project based on cluster approach for towns in 9 district of Chhatarpur, Panna, Tikamgarh, Damoh, Ratlam, Mandsaur, Neemuch, Alirajpur, Jhabua	Urban Administration & Development Department, Government of Madhya Pradesh	79 towns & cities	<~ 685 TPD + Waste Generation 1 Town more than ~ 100 TPD + 2 Town ~ 50 TPD + 2 Town ~ 40 TPD + 3 Town ~ 25 TPD + 71 Town less than ~ 10 TPD +	~Rs. 250.00 Crore
7	FS + DE	Karnataka	Implementation of integrated solid waste management (ISWM) project for towns under Swachh Bharat Mission	Directorate of Municipal Administration, Government of Karnataka	43 towns & cities	<~950 TPD+ Waste Generation 1 Town more than ~100 TPD 3 Town ~75 TPD 2 Town ~50 TPD 2 Town ~40 TPD 4 Town ~30 TPD 7 Town ~20 TPD 24 Town less than ~15 TPD	~Rs. 195.00 Crore
8	FS + DE	Maharashtra	Implementation of Solid waste management projects for towns in 5 district of Amravati, Akola, Buldhana, Washim, Yavatmal	Swachh Maharashtra Mission, Government of Maharashtra	58 towns & cities	~1150 TPD+ Waste Generation 2 Town more than ~200 TPD 1 Town ~85 TPD 3 Town ~35 TPD 5 Town ~25 TPD 4 Town ~20 TPD 9 Town ~15 TPD 34 Town less than ~10 TPD	~Rs. 227.00 Crore
9	PMC	Madhya Pradesh	Implementation of Integrated solid waste management (ISWM) project on cluster approach with 10 MW 'Waste to Energy' plant	Gwalior Municipal Corporation & Government of Madhya Pradesh	15 towns & cities of 3 district of Gwalior, Datia, Morena	<~ 620 TPD + Waste Generation	~Rs. 372.00 Crore
10	FS	Karnataka	City Sanitation Plans (CSP) in towns of 3 District of Dharwad, Haveri & Uttara Kannada	Directorate of Municipal Administration, Government of Karnataka	28 towns & cities	~ 500 TPD + Waste Generation	~Rs. 360.00 Crore
11	FS + DE	Uttar Pradesh	Integrated Solid waste Management projects	Sitapur Municipal Council	Sitapur	<~75 TPD+ Waste Generation Waste to Compost ~50 TPD Capacity Waste to Energy ~25 TPD Capacity	~Rs. 25.00 Crore
12	PMC	Maharashtra	Implementation of all Solid Waste Management Project in Amaravati	Amravati Municipal Corporation	Amravati	~ 250 TPD + Waste Generation	~Rs. 50.00 Crore
13	PMC	Andhra Pradesh	Construction of Fecal Sludge Treatment Plant (FSTP) in 76 towns	Swachh Andhra Corporation, Govt. of Andhra Pradesh	76 towns & cities	<~1140 KLD + Plant Capacity	~Rs. 90.00 Crore

FS: Feasibility Study & Survey

BD: Bid Process Management

DPR:- Detailed Project Report

DE: Design, Engineering & DPR preparation

PMC: Project Management & Supervision

TPD: Metric Ton per day

No.	Services	State	Project	Client	Locations	Capacity	Project Value
14	FS + DE	Madhya Pradesh	Construction of Waste to Compost Plants based on Windrow Technology in 4 Towns for processing of mixed waste	Municipal Councils	4 Towns	<~265 TPD+ Plant Capacity Ratlam ~100 TPD Capacity Sehore ~50 TPD Capacity Vidisha ~65 TPD Capacity Hoshangabad ~50 TPD Capacity	~Rs. 52.00 Crore
15	FS + DE + BD + PMC	Bihar	Project Development and Management Consultant (PDMC) for Integrated Solid Waste Management in Bhagalpur	Bhagalpur Smart City Limited	Bhagalpur	<~160 TPD+ Waste Generation	~Rs. 13.00 Crore
16	FS + DE + BD + PMC	Gujarat	Implementation of all types of Solid Waste Management Projects under Swachh Bharat Mission 2.0 (U)	Bhuj Municipal Council	Bhuj	<~65 TPD+ Waste Generation Waste to Compost ~75 TPD Capacity Waste to Energy ~10 TPD Capacity C&D Waste Processing ~20 TPD Capacity Legacy Waste Disposal ~2 Lakh Metric Ton	~Rs. 25.00 Crore
17	FS + DE + BD + PMC	Gujarat	Implementation of all types of Solid Waste Management Projects under Swachh Bharat Mission 2.0 (U)	Kalol Municipal Council	Kalol	<~50 TPD+ Waste Generation Waste to Compost ~50 TPD Capacity Legacy Waste Disposal ~1.76 Lakh Metric Ton	~Rs. 15.00 Crore
18	DE + BD + PMC	Gujarat	Preparation of Village action Plan and DPR for Solid and Liquid Waste Managements under Swachh Bharat Mission Grameen (Phase 2)	Commissioner of Rural Development, Government of Gujarat	2000 Villages of 6 district of Ahmedabad, Amreli, Surendranagar, Morbi, Botad & Bhavnagar		
19	FS + DE + BD + PMC	Gujarat	Implementation of all types of Solid Waste Management Projects under Swachh Bharat Mission 2.0 (U)	Bharuch Municipal Council	Bharuch	<~250 TPD+ Waste Generation Presorting Facility ~300 TPD Capacity C&D Waste Processing ~25 TPD Capacity Legacy Waste Disposal ~3.00 Lakh Metric Ton	~Rs. 25.00 Crore
20	DE + BD + PMC	Uttar Pradesh	Processing & Disposal of Legacy Waste	Lucknow Municipal Corporation	Lucknow	<~1500 TPD+ Waste Generation Legacy Waste Disposal ~10.00 Lakh Metric Ton	~Rs. 55.00 Crore
21	FS + DE + BD + PMC	Gujarat	Implementation of all types of Solid Waste Management Projects under Swachh Bharat Mission 2.0 (U)	Nadiad Municipal Council	Nadiad	<~100 TPD+ Waste Generation Legacy Waste Disposal ~3.00 Lakh Metric Ton	~Rs. 12.00 Crore
22	DE + BD + PMC	Madhya Pradesh	Implementation of all types of Solid Waste Management Projects under Swachh Bharat Mission 2.0 (U)	Government of Madhya Pradesh	120 Cities and Towns of Gwalior & Bhopal Division	<~2500 TPD+ Waste Generation	~Rs. 900.00 Crore (Budget)
23	FS+DE + BD + PMC	Gujarat	Processing Plant for Construction & Demolition Waste (C&D) under Swachh Bharat Mission 2.0 (U)	Bhavnagar Municipal Corporation	Bhavnagar	<~50 TPD+ Waste Generation	
24	FS + DE	Madhya Pradesh	Construction of Biomethanation Plants in 4 Towns for processing of Biodegradable waste	Municipal Councils	4 Towns	<~85 TPD+ Plant Capacity Ratlam ~30 TPD Capacity Sehore ~20 TPD Capacity Vidisha ~20 TPD Capacity Hoshangabad ~15 TPD Capacity	~Rs. 21.00 Crore

Good intentions and best efforts are commendable, but when it comes to your waste management, **“THE BOTTOM LINE IS PERFORMANCE AND AT MaRS WE INTEND TO DELIVER IT”**

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