





ABOUT SMI INC. JAPAN

Together, let's shape a cleaner, healthier tomorrow.

At SMI Inc., Japan, we harness cutting-edge Japanese technology to create sustainable solutions for a better future. With innovation, precision, and determination, we tackle critical environmental challenges. Our leadership team, comprising Dr. Mitsuaki Sugie PhD, CEO and Chairman, Ms. Satoe Sugie, President, and Dr. Anil Mathew PhD, Global Director, brings unparalleled expertise and vision to guide SMI Inc. towards developing impactful, sustainable solutions worldwide.

Patented technologies with global recognition
Extensive network of scientists and technologists
Commitment to achieve UN Sustainable Development Goals
Continuous innovation in addressing global challenges
Lead R&D in green technology to drive innovation.

Guided by our commitment to excellence and sustainability, SMI Inc. continues to pioneer technologies that inspire change and make a meaningful impact on communities worldwide.



Dr. Mitsuaki Sugie PhD CEO & Chairman



Ms. Satoe Sugie President



Dr. Anil Mathew PhDDirector (Global Operations)













A Cleaner, Greener World

At SMI Inc., Japan, we envision a world where:

- Every piece of waste is transformed into a reusable organic product Cities are clean, green and healthy
- Environmental sustainability is a reality, not just a goal Innovative technologies drive ecological balance

To realize this vision, we SMI Inc., a pioneering japanese company, plan to introduce cutting-edge waste management technology to the world. We are introducing the Multi-Waste Management Machine — a revolutionary approach to waste' treatment that promises to transform World's environmental landscape. We believe that with the right technology and collective will, we can transform the World's waste management landscape, creating a brighter, cleaner future for generations to come.











INTRODUCING MULTI WASTE MANAGEMENT MACHINE JAPANESE INNOVATION

Japanese Innovation for India's environmental Future

In our quest for a sustainable solution, SMI Inc., a pioneering Japanese technology company, brings state-of-the-art waste management technology to India, marking a new era in our fight against pollution. we're introducing a game-changing technology to India: the Multi Waste Management Machine.

The Multi Waste Management (MWM) is a revolutionary waste processing system that:

- Processes mixed solid waste, including plastic, medi-waste and E-waste
- Converts waste into non-toxic, soil-like Product
- Operates with low energy consumption
- Non-incineration organic waste treatment
- Utilizes subcritical water reaction for hydrolysis
- Hydrolysis and high-temperature, high-pressure processing
- Converts waste into valuable resources
- Environmentally friendly with no dioxin or CO2 emissions
- Produces no harmful emissions
- Features compact design and automated operation
- Versatile processes all types of waste except glass, iron, and stone













1. Collection = > Organic waste is gathered from various sources

2. Pre-processing => Waste is sorted and prepared for treatment

3. Hydrolysis => Subcritical water rea4ion breaks down complex molecules

4. High-Pressure Treatment => Further decomposition and sterilization

5. Resource Recovery = > Production of valuable materials (fertilizer, feed, fuel)

The Multi Waste Management Machine employs cutting-edge sub-critical water technology to transform waste:

The Science Behind the Magic

- 1. Mixed waste is collected and fed into the machine.
- 2. The waste is subjected to high-temperature, high-pressure conditions just below the critical point of water.
- 3. This process breaks down complex organic molecules into simpler, non-toxic compounds.
- 4. The result is a sterile, Soil like product safely used for several applications and also as organic manure.
- 5. Basic sorting removes glass, iron, and stones.
- 6. Mixed waste is loaded into the Multi Waste Management Machine.
- 7. Molecular level process is known as Hydrolysis
- 8. Waste is converted into a non-toxic, soil-like product.
- 9. The resultant material can be used for agriculture, construction, and more.

The entire process is efficient, clean, and environmentally friendly







WIDE RANGE OF TREATABLE WASTE



Versatile Solutions for Diverse Waste Streams

Multi Waste Management Machine can effectively process various types of organic waste, including:

- Food waste from households and businesses
- Agricultural residues and crop waste
- Livestock manure and slaughterhouse waste
- Sewage sludge
- Medical and pharmaceutical waste
- Certain types of industrial organic waste











Waste MANAGEMEN I Statistics

1. Waste Generation

India generates approximately 62 million tonnes of waste annually, with an average claily waste generation of 147,613 tones. The per capita waste generation in Indian cities ranges from 200 to 600 grams her day.

2. Waste Composition

Organic waste constitutes abr>ut 50% of the total waste generated, followed by recyclables (17%), inert materials (30%), and hazardous waste (3%).

3. Waste management Infrastructure

Only about 75-80% of the waste generated is collected, and a mere 22-28% is processed and treated. India has around 1,210 waste processing plants, with a capacity to process 33,900 tonnes per day (TPD), which is insufficient to manage the waste generated.

4. Waste Management in Urban India Urban areas generate the majority of waste; metropolitan cities alone generate around 31 million tonnes of waste annually. Only 60% of waste generated in urhan areas is collected, and merely 15% is processed.

5. Plastic Waste Management

India generates about 3.3 million metric tonnes of plastic waste annually, with an average daily generation of 26,000 tonnes. Only 60% of plastic waste is recycled, with the remaining 40% ending up in landfills or littered. 6. E-waste Management

India is the third-largest e-waste generator in the world, with an estimated annual generation of 3.2 million metric tonnes. Only 1.3% of e-waste is recycled through formal channels, poking significant environmental and health risks.

- 7. Biomedical Waste Management India generates around 600 tonnes of biomedical waste per day, with the majority coming from healthcare facilities. About 415 tonnes of this waste is incinerated. while the rest is treated through autoclaving or deep burial.
- 8. Waste Management Regulations The waste management sector in India is governed by various regulations, including the Solid Waste Management Rules (2016), Plastic Waste management Rules (2016), E-waste Management Rules (2016), and Biomedical Waste Management Rules (2016).



BENEFITS FOR INDIAN CITIES

Implementing the MWM technology across India will:

- Drastically reduce landfill waste
- Improve air and water quality
- Create new resources from waste
- Reduce greenhouse gas emissions
- Promote circular economy principles
- The quality of life and total health will be at par with developed countries















CHALLENGE

India's Waste Management Crisis:

India, our beloved homeland, faces a monumental challenge:

- Daily waste generation: Over 150,000 metric tonnes
- Annual waste generation: Approximately 62 million tonnes
- Only 43% of waste collected
- mere 11.9% treated
- 31.1% dumped in landfills

Despite the valiant efforts of state governments and local municipalities to collect waste door-to-door, the ultimate solution —complete recycling or destruction —remains elusive. The practice of dumping waste in designated areas only exacerbates health problems and environmental degradation.

The consequences are dire:

- Polluted air and water bodies
- Loss of biodiversity
- Climate change acceleration
- Overflowing landfills
- Deteriorating air quality
- Increasing health hazards

It's lime for a revolution in Waste management









Output is non-toxic solid soil like product

Can process all types of waste







OUR COMMITMENT TO SUSTAINABLE DEVELOPMNT GOALS [SDGS]

Our vision aligns closely with several UN Sustainable Development Goals

SDG 3: Good Health And Well-being

SDG 6: Clean Water And Sanitation

SDG 11: Sustainable Cities And Communities

SDG 12: Responsible Consumption And Production

SDG 13: Climate Action















VALUABLE OUTPUTS & APPLICATIONS

From Waste to Wealth

The organic product produced by the Multi Waste Management Machine has valuable outputs and numerous applications:

1. High-Quality Organic Fertilizer:

- Improves soil health and crop yields
- Combines immediate and slow-release nutrients

2. Sterile Animal Feed:

- Safe, nutritious feed for livestock
- Addresses concerns about disease transmission

3. Bioenergy:

Solid fuel for power generation

4. Detoxified Materials:

- Safe disposal of hazardous organic waste
- Potential for further resource recovery

By transforming waste into valuable resources, we're not just solving a problem – we're creating opportunities.

From Waste to Resource: Endless Possibilities

















Power Packed Performance

Model Specifications

MWM-2 (2m³)	MWM-6 (6m ³)
Size of the Reactor: 2m ³	Size of the Reactor: 6m ³
L:7.55m, W:2.0m, H:3.7m	L:9.4m, W:3.0m, H:4.3m
Standard Output per day (10 batches / day)	Standard Output per day (10 batches / day)
Mixed urban waste: 8 tons (for cities of 10,000 people)	Mixed urban waste : 24 tons (for cities of 30,000 people)
Sewage Sludge: 14 tons (for cities of 100,000 people)	Sewage sludge: 42 tons (for cities of 300,000 people)

Operation Specifications

Operation hours	24 hours
Operation hours per batch	1.5 hours
Capacity	6m³
Throughput	45m3
Number of batches per day	16
Specific Gravity	0.4
Output per day	72m³/D
Residual Weight per day	20t/D

Note: These specifications are for reference only. Actuals may change as per the requirements

Transforming Waste Management Nationwide





IMPLEMENTATION PLAN

From Vision to Reality: Our Roadmap

SMI, Japan proposes a phased approach to revolutionize waste management across India:

Phase 1: Research and Planning (1-2 months)

Conduct comprehensive waste audits in target cities Identify optimal locations for Multi Waste Management Machine installation

Develop partnerships with local municipalities and waste management authorities

Phase 2: Pilot Implementation (3-6 months)

- Install Multi Waste Wanagement Machine in 5 major cities
- Train local operators and maintenance personnel
- Monitor and analyze performance metrics

Phase 3: Nationwide Rollout (6 months-3 years)

- Expand installation to 100 cities across India
- Establish a network of waste collection and processing centers
- Supply maximum quantity of organic manure with help of major fertilizer manufacturing companies

Phase 4: Integration and Optimization (3-5 years/Ongoing)

- Continuously improve processes based on data and feedback
- Integrate MWM technology with smart city initiatives
- Promote public awareness and participation in sustainable waste management













SOCIALIMPACT

Creating a Safer, Cleaner India Environmental, Health Benefits

Implementation of MWM technology across India will lead to:

- Diversion of organic waste from dumps
- No incineration means no harmful emissions
- Prevention of leachate contamination
- Complete sterilization of pathogens
- Production of high-quality, safe fertilizers
- Lower greenhouse gas emissions from waste sector

Empowering Communities, Creating Opportunities

- New roles in waste collection, machine operation, and recycled material industries
- Reduced exposure to waste-related diseases
- Increased awareness of environmental issues and sustainable practices
- Cleaner neighborhoods fostering social cohesion
- New revenue streams from recycled materials

Turning Waste Management into an Economic Opportunity

Economic Advantages

The SMI, Japan's MWM Project offers numerous economic benefits:

- New opportunities in waste collection, processing, and product development
- 2. Increased crop yields and reduced fertilizer costs
- 3. Local, renewable energy sources
- 4. Fewer waste-related illnesses
- 5. Development of new industries based on recovered resources



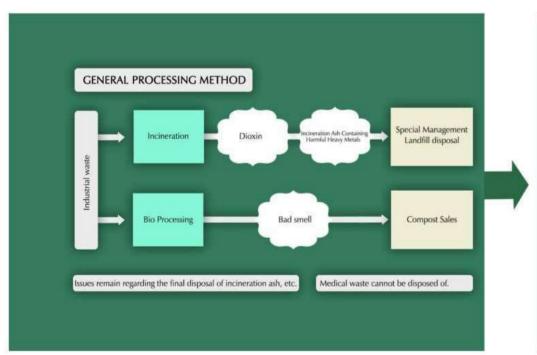


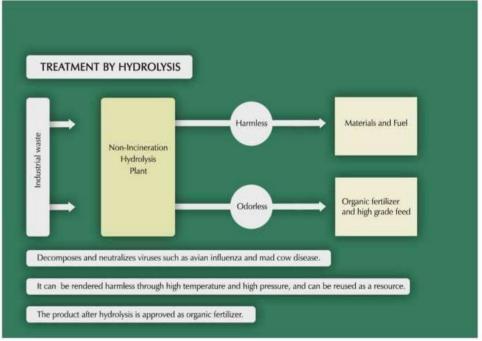






DIFFERENCE BETWEEN FENERAL TREATMENT &











Transforming Delhi's Waste Management

Problem:

- Daily waste generation: 10,500 tones
- Only 85% collected, 15% treated
- Severe air pollution and health issues

Solution:

- Installation of 150 Multi-Waste Management Machines.
 With the capacity of 6 tones per hour
- Daily processing capacity: 9000 tones (total 12 cycles in a day)







Results (Projected):

- 70% reduction in landfill usage
- 40% decrease in waste-related air pollution
- Creation of 500 new green jobs

National Impact Projections (5-Year Plan):

- 1000 Multi-Waste Management Machines installed across India
- Daily waste processing capacity: 50,000 tones
- Annual reduction in landfill waste: 7.3 million tones
- Green jobs created: 20,000+
- Potential annual savings in waste management costs: ₹5000 crore







This is not a dream - it's our commitment to India's future

3. Economic Opportunities:

- Creation of green jobs in waste management sector
- Potential for selling recycled materials
- Reduced costs for waste transportation and landfill maintenance

4. Sustainable Agriculture:

- Use of processed waste as soil enhancer
- Reduction in chemical fertilizer dependence
- Promotion of organic farming practices

5. Urban Development:

- Cleaner cities attracting more investment and tourism
- Improved quality of life for urban residents
- Enhanced India's image on the global stage

The implementation of Multi Waste Management (MWM)

Machine across India will bring about a paradigm shift in waste management:

1. Environmental Protection:

- Significant reduction in landfill usage
- Decreased soil and water pollution
- Improved air quality in urban areas

2. Health Improvements:

- Reduction in waste-borne diseases
- Cleaner living environments for communities
- Enhanced overall public health

















JOIN US IN THIS GREEN REVOLUTION

SMI, Japan invites you to be part of this transformative journey towards a cleaner, healthier India. Together, we can:

- Revolutionize waste management practices
- Create sustainable communities
- Protect our environment for future generations
- Position India as a global leader in green technology

Your support can make a difference:

- Partner with us in implementing MWM technology
- Spread awareness about sustainable waste management
- Advocate for policies that promote innovative environmental solutions

Let's turn our waste into wealth and our challenges into opportunities!









TESTIMONIALS



"All must adhere to the "golden principle" of the 3Rs --Reduce, Reuse and Recycle-- which will significantly help in waste management and sustainable development of mankind."

- Hon'ble Prime Minister Narendra Modi

"The Multi-Waste Management Machine is not just a technological marvel; it's a solution for global waste management challenges." -Dr. Masanori Ishimaru



"The future is built on what we refuse to waste today. A cleaner earth isn't just a dream – it's a responsibility." – Mr. Rohit Kalra, India







ABOUT INDCO TEKNO CONSULTANT PVT.LTD



- M/s Indco Tekno Consultant (ITCPL) offers project marketing, execution, and funding consultancy for MSMEs.
- Founder & MD, Rohit Kalra, an Electrical Engineer and MBA, brings 39+ years of experience in construction, security systems, and project consulting.
- ❖ CEO, Archana Kalra, also an Electrical Engineer and MBA, has 30+ years in ITES marketing with strong government ties.
- ❖ Director Marketing, Nitin Sharma has 20+ years in healthcare marketing with top firms and global representation.
- ❖ ITCPL also supports pharma, hospitals, hospitality, and solar projects with EPC appointments and fundraising

