Manipal University Jaipur

Policy on Ethical Sourcing of Food and Supplies

1. Introduction

Manipal University Jaipur values the role of ethical sourcing in fostering sustainability, responsible procurement, and the ethical treatment of workers and communities involved in producing the food and supplies utilized at the university. This policy outlines our commitment to aligning our practices with responsible sourcing for food and supplies, reinforcing our values through sustainable and ethical procurement.

2. Objectives

2.1. Sustainability

To encourage sustainable practices that reduce environmental impact and contribute to conservation efforts and raise awareness about sustainable food amongst stakeholders.

2.2. Ethical Treatment

To guarantee the ethical treatment of workers and communities involved throughout the production and supply chain of our food and supplies.

2.3. Transparency

To ensure transparency in our sourcing practices and to share information about the origin and impact of our products with the university community.

3. Ethical Sourcing Principles

3.1. Environmental Responsibility

Manipal University Jaipur is committed to sourcing food and supplies produced through environmentally responsible practices, such as sustainable agriculture, responsible fishing, and practices that minimize environmental impact.

3.2. Fair Labor Practices

We expect our suppliers to uphold fair labor practices, providing fair wages, safe working conditions, and protection of workers' rights.

3.3. Local and Community Support

MANIPAL UNIVERSITY JAIPUR

Whenever possible, the university will prioritize local and regional suppliers to bolster local economies and community development.

3.4. Animal Welfare

We advocate for the humane treatment of animals in food production and support sourcing products from suppliers who follow ethical animal welfare standards.

3.5. Certifications

Manipal University Jaipur will prioritize products that bear recognized certifications for ethical sourcing and sustainability, such as Fair Trade, USDA Organic, or Rainforest Alliance.

4. Supplier Selection and Evaluation

4.1. Supplier Assessment

The university will evaluate and select suppliers based on their adherence to our ethical sourcing principles.

4.2. Ongoing Evaluation

Regular evaluations of suppliers will ensure continued compliance with ethical sourcing standards.

5. Transparency and Communication

5.1. Information Disclosure:

Manipal University Jaipur will communicate information about ethical sourcing practices, certifications, and the impact of sourced products to the university community.

6. Education and Awareness

6.1. Education Programs:

The university will conduct educational programs, workshops, and campaigns to raise awareness about ethical sourcing and its importance within the university community.

7. Evaluation and Improvement

7.1. Regular Assessment:

a. This policy will be periodically reviewed to evaluate its effectiveness in promoting ethical sourcing.

b. Feedback from the university community and suppliers will be considered for improvements.

8. Conclusion

Manipal University Jaipur is dedicated to ethical sourcing practices that align with our commitment to sustainability, responsibility, and ethical treatment of workers and communities. This policy document reflects our pledge to ensure that the food and supplies used within our institution uphold these principles and contribute to a better future for all.

Version History

Number	Year	Major Revision
Version 4.0	2023	Focus on awareness
Version 3.0	2022	Modification in procurement process
Version 2.0	2021	Special Clauses due to COVID 19
Version 1.0	2020	Initial policy

Approval

MANIPAL UNIVERSITY JAIPUR

Manipal University Jaipur Hazardous Waste Disposal Policy

1. Introduction

Manipal University Jaipur is dedicated to the safe and responsible management of hazardous materials generated on campus. This policy outlines our commitment to handling hazardous waste in compliance with local, state, and federal regulations and establishes procedures to safeguard the environment and the health and safety of our university community.

2. Purpose

- The objectives of this policy are to:
- Ensure the proper identification, handling, and disposal of hazardous waste.
- Comply with all relevant laws and regulations regarding hazardous waste management.
- Foster a culture of environmental responsibility and safety among university staff, faculty, students, and contractors.
- Raise awareness about waste disposal amongst stakeholders.

3. Policy Statements

Hazardous Waste Identification

- All university personnel are accountable for identifying materials classified as hazardous waste in alignment with regulatory guidelines.

- The Directorate of General Services & Administration will provide guidance and training to assist in the identification of hazardous materials.

Hazardous Waste Handling and Storage

- Hazardous materials must be stored in containers that are appropriately labeled with hazard information and disposal instructions.

MANIPAL UNIVERSITY JAIPUR

- Hazardous waste should be kept in designated, well-ventilated, and secure areas that are accessible only to authorized personnel.

- The university will maintain an inventory of hazardous materials and waste stored on campus.

Hazardous Waste Minimization

- Manipal University Jaipur is committed to reducing the generation of hazardous waste by promoting the use of less hazardous materials and processes whenever feasible.

- Faculty and staff are encouraged to explore sustainable alternatives and participate in waste minimization training.

Hazardous Waste Disposal

- Only authorized personnel trained in hazardous waste handling and disposal are permitted to transport and dispose of hazardous materials.

- Hazardous waste will be managed through licensed and authorized waste disposal facilities in full compliance with applicable regulations.

- University departments and laboratories are responsible for maintaining records of hazardous waste disposal activities.

Emergency Response

- The university will have established procedures and resources for responding to accidental releases or spills of hazardous materials to reduce potential risks to health and the environment.

- All personnel will receive training in emergency response procedures and be informed of the location of emergency equipment, including spill kits and eyewash stations.

4. Implementation

4.1. Responsibility

- The Directorate of General Services & Administration will oversee the implementation and enforcement of this policy.

- Each department and laboratory on campus is responsible for complying with this policy and ensuring proper hazardous waste management.

4.2. Compliance

- Non-compliance with this policy, as well as local, state, and federal regulations, may result in disciplinary actions, fines, or legal consequences as per university policies and applicable laws.

5. Training and Education

- The university will provide ongoing training and education to ensure that all personnel understand and adhere to hazardous waste disposal protocols.
- Regular drills and exercises related to emergency response will be conducted to maintain preparedness.

6. Reporting and Documentation

- All incidents involving hazardous materials must be promptly reported to the Directorate of General Services & Administration.
- Comprehensive records of hazardous waste generation, handling, and disposal will be maintained in accordance with regulatory requirements.

7. Review and Revision

This policy will be reviewed annually to ensure its continued effectiveness and compliance with evolving hazardous waste regulations and best practices.

8. Conclusion

Manipal University Jaipur is dedicated to the safe and responsible management of hazardous waste on campus. Through diligent adherence to this policy, we aim to protect the

environment, ensure the health and safety of our community, and maintain our commitment to regulatory compliance.

Version History

Number	Year	Major Revision
Version 4.0	2023	Focus on awareness
Version 3.0	2022	Updated Regulations in accordance with CPCB
Version 2.0	2021	COVID 19 Regulations
Version 1.0	2020	Initial policy

Approval

MANIPAL UNIVERSITY JAIPUR

Manipal University Jaipur

Waste Disposal and Recycling Policy

1. Introduction

Manipal University Jaipur acknowledges the vital role of responsible waste disposal and recycling in minimizing environmental impact and supporting sustainable practices. This policy outlines our commitment to tracking and reducing landfill waste while enhancing recycling efforts across our university community.

2. Objectives

To reduce the environmental impact associated with waste disposal and promote sustainability through responsible waste management practices.

2.1. Measurement and Reporting:

To systematically measure and report the volume of waste directed to landfill as well as the quantity of materials recycled.

2.2. Education:

To raise awareness and actively involve the university community in waste reduction and recycling initiatives.

3. Definitions

3.1. Landfill Waste:

Waste materials are disposed of in landfills for final disposal.

3.2. Recycling:

The process of collecting, processing, and reusing materials to prevent waste and reduce the demand for raw materials.

4. Waste Management and Recycling Principles

4.1. Source Separation:

Manipal University Jaipur promotes source separation of waste, encouraging individuals to separate recyclables from non-recyclables at the point of disposal.

4.2. Recycling Infrastructure:

The university will provide recycling bins and infrastructure to facilitate proper recycling throughout campus.

4.3. Waste Audits:

Regular waste audits will be conducted to assess waste composition, identify opportunities for improvement, and measure progress toward waste reduction goals.

5. Measurement and Reporting

5.1. Waste Metrics:

Manipal University Jaipur will establish metrics to measure the volume of waste sent to landfill and the volume of waste recycled on a regular basis.

5.2. Annual Reporting:

The university will publish annual reports that detail waste disposal and recycling data, progress toward waste reduction goals, and areas needing improvement.

6. Education and Engagement

6.1. Education Programs:

Manipal University Jaipur will conduct educational programs, workshops, and campaigns to educate employees, students, and visitors about responsible waste disposal and recycling.

6.2. Community Engagement:

The university will engage the campus community in waste reduction initiatives, encouraging active participation and behavioral changes in support of sustainable practices.

7. Waste Reduction Initiatives

7.1. Waste Reduction Goals:

The university will establish waste reduction targets to reduce the volume of waste sent to landfill over time.

7.2. Recycling Programs:

Manipal University Jaipur will expand recycling programs to increase the volume of materials recycled.

8. Evaluation and Improvement

8.1. Regular Assessment:

a. This policy will be periodically reviewed to assess its effectiveness in measuring waste disposal and promoting recycling.
b. Feedback from the university community and regulatory agencies will be considered for policy enhancements.

9. Conclusion

Manipal University Jaipur is committed to responsible waste disposal and recycling, aiming to enhance sustainability and lessen environmental impact. This policy reflects our dedication to tracking and reducing landfill waste, as well as increasing recycling efforts throughout our academic community.

Version History

Number	Year	Major Revision
Version 4.0	2023	Focus on awareness
Version 3.0	2022	Establish waste reduction targets
Version 2.0	2021	Special Clauses due to COVID 19
Version 1.0	2018	Initial policy

Approval

MANIPAL UNIVERSITY
JAIPUR

Manipal University Jaipur Plastic Waste Reduction Policy

1. Introduction

Manipal University Jaipur acknowledges its responsibility to minimize environmental impact and foster sustainability across all campus activities. Reducing plastic waste is a key area where meaningful change can be achieved. This policy outlines our commitment to reducing plastic waste and establishes a framework for accomplishing this objective.

2. Purpose

The purpose of this policy is to:

- Limit the use of single-use plastics on campus.
- Encourage responsible plastic waste management and recycling practices.
- Raise awareness and involve the university community in efforts to reduce plastic waste.

3. Policy Statements

3.1. Single-Use Plastics Reduction

- Manipal University Jaipur will progressively eliminate the use of single-use plastic items, such as straws, cutlery, cups, and bags on campus.

- Sustainable and reusable alternatives will be available in campus dining facilities, vending machines, and at university events.

3.2. Plastic Recycling

- The university will place recycling bins in accessible locations across the campus to aid in the collection and proper disposal of plastic waste.

- Educational initiatives will be implemented to inform the campus community about the importance of proper plastic disposal.

3.3. Plastic-Free Events

- Manipal University Jaipur will encourage event organizers on campus to adopt plastic-free practices, such as using reusable or compostable materials.
- Event planners will be provided with guidelines and resources to help them reduce plastic waste during events.

MANIPAL UNIVERSITY JAIPUR

3.4. Sustainable Procurement

- The university's procurement policies will prioritize suppliers and products that minimize plastic packaging.
- Vendors and suppliers will be encouraged to offer plastic-free packaging options.

3.5. Research and Innovation

- Manipal University Jaipur will support research initiatives focused on plastic waste reduction, recycling technologies, and sustainable materials.
- Faculty and students will be encouraged to engage in research projects related to plastic waste management.

4. Implementation

4.1. Responsibility

- Office of Registrar Manipal University Jaipur, in collaboration with relevant departments, will oversee the implementation of this policy.
- Each department and unit will be responsible for implementing plastic waste reduction measures within their areas of influence.

4.2. Compliance

- All members of the university community, including students, faculty, staff, and vendors, are expected to comply with this policy.
- Non-compliance may result in disciplinary actions as per university policies.

5. Monitoring and Reporting

5.1. Progress Tracking

- Regular assessments will be conducted to track progress toward plastic waste reduction goals.

5.2. Annual Reports

- The Office of Registrar Manipal University Jaipur will publish annual reports summarizing the university's achievements in plastic waste reduction.
- These reports will be shared with the campus community and made available to the public.

6. Review and Revision

This policy will be reviewed annually to ensure its continued effectiveness in reducing plastic waste on campus. Feedback from the campus community and evolving best practices in sustainability will inform any necessary revisions.

7. Conclusion

Manipal University Jaipur is committed to taking active steps to reduce plastic waste on campus. Through this policy, we aim to inspire our community members to embrace sustainable practices and help create a healthier planet for current and future generations.

Version History

Number	Year	Major Revision
Version 3.0	2023	Focus on awareness
Version 2.0	2022	Including measures as per UGC and Central Government of India
Version 1.0	2020	Initial policy

Approval

MANIPAL UNIVERSITY
JAIPUR

Manipal University Jaipur

Disposable Item Minimization Policy

1. Introduction

Manipal University Jaipur recognizes the importance of environmental sustainability and responsible resource management. We encourage both students and faculty to minimize the use of single-use cutlery and embrace zero-waste practices. Disposable items, especially single-use plastics and non-recyclable materials, pose significant environmental challenges globally, threatening ecosystems and wildlife. As a responsible institution, we are committed to reducing the use of disposable items on our campuses.

2. Objectives

The primary objectives of this policy are:

1. Decrease the environmental impact associated with the use of disposable items, including single-use plastics, paper products, and other non-recyclable materials.

2. Raise awareness amongst stakeholders to minimize disposable item usage.

3. Set a positive example and promote environmentally conscious practices within the university community.

3. Strategies for Minimizing Disposable Items

To achieve these objectives, Manipal University Jaipur will implement the following strategies:

1. Inventory and Assessment:
    - Conduct a comprehensive inventory and assessment of disposable item usage across all university campuses.

MANIPAL UNIVE

- Identify key areas and departments with high disposable item consumption.

2. Reduction Targets:
   - Establish specific and measurable targets for reducing the use of disposable items.
   - Develop a timeline for achieving these targets.

3. Sustainable Alternatives:
   - Promote the use of sustainable alternatives, such as reusable containers, water stations, and eco-friendly packaging, throughout campus facilities.

4. Education and Awareness:
   - Launch educational campaigns to inform the university community about the environmental impact of disposable items.
   - Provide training on proper waste disposal, recycling, and the benefits of sustainability.

5. Procurement Policies:
   - Integrate sustainability criteria into procurement policies, favoring products and vendors that align with our disposable item reduction goals.

6. Collaboration:
   - Collaborate with local businesses and suppliers to reduce the use of disposable items in university-related activities and events.

4. Responsibilities

1. University Administration:
   - Provide leadership and support for the implementation of this policy.
   - Allocate necessary resources for the successful execution of strategies.

2. Directorate of General Services & Administration:
    - Oversee the development, implementation, and monitoring of disposable item minimization initiatives.
    - Coordinate educational campaigns and training programs.

3. Campus Departments and Units:
    - Participate in disposable item usage audits and reduction efforts.
    - Comply with the guidelines set forth in this policy and support sustainability initiatives within their respective areas.

4. Students, Faculty, and Staff:
    - Actively participate in and support university-wide efforts to reduce disposable item usage.
    - Report non-compliance with this policy to appropriate university authorities.

5. Reporting and Monitoring

Manipal University Jaipur will regularly monitor progress towards the reduction targets outlined in this policy. Progress reports will be shared with the university community to maintain transparency and accountability.

6. Compliance and Enforcement

Non-compliance with this policy may result in corrective actions, which may include educational measures, fines, or other appropriate measures as determined by Manipal University Jaipur authorities.

7. Review and Revision

This policy will be reviewed periodically to assess its effectiveness and relevance. Necessary revisions will be made to ensure its alignment with evolving sustainability goals.

MANIPAL UNIVERSITY JAIPUR

8. Conclusion

Manipal University Jaipur is dedicated to minimizing the use of disposable items on our campuses. This policy provides a roadmap for achieving our sustainability goals and fostering a culture of environmental responsibility. Together, we can make a positive impact on the environment and inspire future generations to follow our example.

Version History

Number	Year	Major Revision
Version 3.0	2023	Focus on raising awareness
Version 2.0	2022	Favoring products and vendors that align with our disposable item reduction goals.
Version 1.0	2020	Initial policy

Approval:

MANIPAL UNIVERSITY JAIPUR

MANIPAL UNIVERSITY
JAIPUR

Food Waste Measurement Policy

1. Introduction

Manipal university Jaipur is steadfast in its commitment to fostering a campus community that champions responsible resource management and ecological stewardship. As part of this unwavering dedication to sustainability, we recognize the pivotal role food waste reduction plays in minimizing our environmental footprint and advancing the principles of social responsibility.

This policy outlines the guidelines and procedures for measuring and managing food waste generated within Manipal University Jaipur. Recognizing the importance of sustainability and responsible resource management, the university is committed to reducing its environmental footprint, including food waste. This policy serves as a framework for monitoring and reducing food waste across campus.

2. Objectives

2.1. To quantify and assess the amount of food waste generated on campus.

2.2. To identify areas and operations within the university where food waste is most prevalent.

2.3. To develop strategies and initiatives for reducing food waste.

2.4. To promote awareness and education about food waste reduction among students, faculty, and staff.

2.5. To foster collaboration with local organizations to address food waste at the community level.

3. Responsibility and Accountability

3.1. The Directorate of General Services & Administration is responsible for implementing and overseeing this policy.

3.2. Each university department and dining facility is responsible for measuring, reporting, and actively working to reduce food waste within its respective area.

MANIPAL UNIVERSITY JAIPUR

3.3. The Directorate of General Services & Administration shall provide guidance and support in implementing food waste reduction initiatives.

4. Food Waste Measurement

4.1. Regular Food Waste Audits:

4.1.1. Each dining facility and food service operation shall conduct regular food waste audits.

4.1.2. Audits shall include tracking the types and quantities of food waste generated.

4.1.3. Data from audits shall be recorded using standardized forms and reported to the Directorate of General Services & Administration.

4.2. Data Analysis:

4.2.1. The Directorate of General Services & Administration shall analyse the collected data to identify trends and areas for improvement.

4.2.2. Data shall be used to establish benchmarks and set food waste reduction targets.

5. Food Waste Reduction Strategies

5.1. Prevention:

5.1.1. Implement portion control measures.

5.1.2. Enhance menu planning and forecasting to reduce overproduction.

5.1.3. Educate food service staff on food waste reduction techniques.

5.2. Diversion:

5.2.1. Promote composting of food waste.

5.2.2. Explore partnerships with local organizations for food donation programs.

5.3. Education and Outreach:

MANIPAL UNIVERSITY JAIPUR

5.3.1. Conduct awareness campaigns for students, faculty, and staff.

5.3.2. Offer workshops and seminars on food waste reduction.

6. Reporting and Monitoring

6.1. The Directorate of General Services & Administration shall maintain records of food waste data and reduction initiatives.

6.2. Progress reports shall be provided annually to the university community and shared with relevant stakeholders.

7. Effective Date Review and Evaluation

7.1. Food Waste Measurement Policy of Manipal University Jaipur shall be effective from 24th August 2020.

7.2. This policy shall be reviewed biennially to assess its effectiveness and make necessary updates.

7.3. The Directorate of General Services & Administration shall conduct periodic assessments to ensure compliance with the policy.

8. Conclusion

Manipal University Jaipur is committed to reducing food waste as part of its broader sustainability efforts. This policy outlines the responsibilities, procedures, and strategies for measuring and reducing food waste on campus. By working together, we can contribute to a more sustainable and environmentally responsible university community. This policy document serves as both an emblem of our commitment and a blueprint for action. Within its pages, we articulate our vision for comprehensively measuring and proactively mitigating food waste throughout the university. This commitment is grounded in our understanding of food waste as a multifaceted challenge that demands a holistic approach.

Number	Year	Major Revision
Version 3.0	2022	Modification as per vendor agreement
Version 2.0	2021	COVID 19 Regulations
Version 1.0	2020	Initial policy

Approval -

MANIPAL UNIVERSITY • JAIPUR •

सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

e-Stamp

Certificate No.	:	**IN-KA15346786229270V**
Certificate Issued Date	:	04-Jul-2023 12:49 PM
Account Reference	:	NONACC (FI)/ kacrsfl08/ KORAMANGALA5/ KA-JY
Unique Doc. Reference	:	SUBIN-KAKACRSFL0808101045850605V
Purchased by	:	QUESS CORP LIMITED
Description of Document	:	Article 12 Bond
Description	:	AGREEMENT
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	QUESS CORP LIMITED
Second Party	:	AJAY KUMAR GARBAGE CLEANING SERVICE
Stamp Duty Paid By	:	QUESS CORP LIMITED
Stamp Duty Amount(Rs.)	:	100 (One Hundred only)

KORAMANGALA * PMSSN * BANGALORE ★ Authorised Signatory

Please write or type below this line

This Stamp Paper forms an integral part of the Agreement executed between Quess Corp Limited and Ajay Kumar Garbage cleaning Service

For: Ajay Kumar
Proprietor

QUESS CORP LIMITED

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

VENDOR AGREEMENT

This Vendor Agreement ("**Agreement**") is made and executed on 4th July-2023 by and between.

QUESS CORP LIMITED, bearing Corporate Identification Number (CIN)- L74140KA2007PLC043909, a company incorporated under the Companies Act 1956 and deemed to be existing under the Companies Act 2013, having its registered office address at 3/3/2 Bellandur Gate, Sarjapur Road, Bengaluru - 560103, Karnataka, India (hereinafter referred to as "**Company**" which term, unless it is repugnant to the context or meaning thereof, shall mean and include its successors-in-interest, and permitted assign)**OF THE FIRST PART;**

AND

M/s AJAY KUMAR GARBAGE CLEANING SERVICE, (PAN No.DIWPK3483E), a Company, incorporated under the Companies Act 1956, and having its registered office at Jhag Bus Stand, Bagru, Jaipur, Rajasthan ,represented by **Ajay Kumar, Proprietor** (hereinafter referred to as '**Vendor**' which expression shall, unless repugnant to the context and contrary to the meaning thereof, include its successors-in-interest, legal representatives, administrators and assigns), **OF THE SECOND PART.**

WHEREAS:

A. The Vendor is engaged in a business of **Garbage Cleaning Services.**

B. The Company is a leading business service provider, offering a host of services to help organization manage their non-core activities in the areas of workforce management, operating asset management and global technology solutions, across industries & geographies.

C. Vendor has represented that it has necessary skills, experience and expertise to provide various compliance related services to Company and based on the aforesaid representations from Vendor, Company agrees to avail such services from the Vendor in accordance with their requirement.

NOW, THEREFORE, In consideration of the matters described above, and of the mutual benefit and obligations set forth in this Agreement, the Parties agree as follows:

1. **DEFINITIONS**

The words/phrases defined in this clause shall bear the same meaning in this Agreement, except as indicated otherwise expressly or by context.

a) **Agreement**: shall mean this agreement and any Annexures hereto.

b) **Affiliate** means and includes Company or other person which is either controlled by Company or who controls Company or which is controlled by the same person / entity who controls Company, either by significant shareholding, voting rights or otherwise.

For: Ajay Kumar
Proprietor

QUESS CORP LIMITED

MANIPAL UNIVERSITY
JAIPUR

Manipal University Jaipur Water Reuse Policy

Policy Statement:

Manipal University Jaipur recognizes the critical importance of water conservation and sustainable water management to address global water challenges and reduce its environmental impact. This Water Reuse Policy establishes guidelines and procedures for the responsible reuse of water on campus, promoting a culture of water efficiency and environmental stewardship among faculty, staff, and students.

I. Purpose

The purpose of this Water Reuse Policy is to:

1. Promote responsible water management practices within Manipal University Jaipur .
2. Reduce the consumption of potable water for non-potable purposes.
3. Encourage the implementation of water reuse systems and technologies.
4. Establish guidelines for the collection, treatment, and distribution of reclaimed water.
5. Comply with all applicable local, state, and federal regulations related to water reuse.

II. Scope

This policy applies to all university facilities, including academic buildings, residence halls, administrative offices, athletic facilities, and outdoor spaces.

III. Definitions

1. Reclaimed Water: Treated wastewater that is safe and suitable for non-potable uses, such as irrigation, cooling, and toilet flushing.
2. Greywater: Wastewater generated from sinks, showers, and laundry facilities that can be treated and reused for certain non-potable purposes.
3. Rainwater Harvesting: The collection and storage of rainwater for later use, primarily for landscape irrigation.

MANIPAL UNIVERSITY JAIPUR

4. Water Reuse System: Infrastructure and technologies designed to treat and distribute reclaimed water for non-potable purposes.
5. Potable Water: Safe and clean drinking water suitable for human consumption.

IV. Guidelines and Procedures

A. Water Reuse Systems:

Manipal University Jaipur shall assess and implement water reuse systems, where feasible, to reduce potable water usage. Such systems may include but are not limited to greywater recycling, rainwater harvesting, and reclaimed water distribution.

B. Greywater Recycling:

1. Greywater generated within university facilities shall be collected, treated, and reused for approved non-potable purposes.
2. Treatment and storage systems for greywater shall be designed, installed, and maintained in compliance with applicable regulations and industry standards.
3. Campus users shall be educated on the safe and responsible use of greywater.

C. Rainwater Harvesting:

1. Rainwater shall be collected from roofs and other surfaces and stored for landscape irrigation and other non-potable uses.
2. The design and maintenance of rainwater harvesting systems shall conform to applicable guidelines and regulations.

D. Reclaimed Water Distribution:

1. Manipal University Jaipur shall establish a reclaimed water distribution network to provide treated wastewater for non-potable purposes across campus.
2. The treatment and distribution of reclaimed water shall comply with regulatory standards and ensure the safety of users.

MANIPAL UNIVERSITY JAIPUR

E. Monitoring and Reporting

1. Manipal University Jaipur shall establish a monitoring program to track water reuse system performance and water quality.
2. Regular reports on water reuse activities, water savings, and system maintenance shall be submitted to the appropriate university departments and regulatory agencies.

V. Implementation and Compliance

A. Responsibility:

1. The Directorate of General Services & Administration shall be responsible for overseeing the implementation and compliance of this policy.
2. All university departments and users shall cooperate in the implementation and enforcement of this policy.

B. Compliance:

1. Failure to comply with this policy may result in disciplinary action as per university regulations.
2. Manipal University Jaipur shall maintain compliance with all local, state, and federal regulations related to water reuse.

VI. Review and Revision

This policy shall be reviewed annually and updated as necessary to reflect changes in technology, regulations, and best practices related to water reuse.

VII. Conclusion

Manipal University Jaipur is committed to reducing its environmental impact and promoting responsible water management through this Water Reuse Policy. By implementing water reuse systems and fostering a culture of water efficiency, Manipal University Jaipur aims to contribute to a sustainable and water-conscious campus environment and set an example for its community and beyond.

MANIPAL UNIVERSITY • JAIPUR •

MANIPAL UNIVERSITY
JAIPUR

Version History

Number	Year	Major Revision
Version 3.0	2022	Greywater Resue
Version 2.0	2021	Special Clause added due to COVID 19
Version 1.0	2018	Initial policy

Approval

MANIPAL UNIVERSITY JAIPUR

MANIPAL UNIVERSITY
JAIPUR

Manipal University Jaipur Water Use Policy

1. Introduction

Water is a precious and finite resource vital for sustaining life and the functioning of our society. As a responsible institution, our university recognizes the significance of water conservation and sustainable usage practices. This policy outlines the guidelines, responsibilities, and strategies for efficient water use and conservation within the Manipal University Jaipur premises. It is designed to ensure the responsible management of water resources, promote sustainability, and minimize the Manipal University Jaipur's environmental impact.

2. Objectives

- To reduce water consumption across all Manipal University Jaipur's facilities.
- To promote awareness and education regarding water conservation among the university community.
- To implement best practices for water management, including efficient technologies and infrastructure.
- To comply with local, state, and national water use regulations and standards.

3. Responsibilities

a. Directorate General Services & Administration:

- Develop and enforce water conservation strategies.
- Allocate necessary resources for the implementation of water-saving measures.
- Regularly monitor and assess water usage across campus.

b. Facilities Management:

- Implement efficient plumbing, fixtures, and irrigation systems.
- Conduct regular maintenance and repairs to prevent water wastage.
- Investigate and adopt new technologies for water conservation.

MANIPAL UNIVERSITY • JAIPUR •

c. Faculty, Staff, and Students:

- Encourage responsible water use practices among the university community.
- Participate in awareness campaigns and initiatives.
- Report any water leaks or inefficiencies promptly.

4. Water Use Guidelines

a. Landscaping and Irrigation:

- Use native and drought-resistant plants in landscaping.
- Schedule irrigation during off-peak hours to minimize water loss due to evaporation.
- Utilize rainwater harvesting and recycled water for irrigation where possible.

b. Infrastructure and Buildings:

- Install low-flow faucets, toilets, and showerheads in all buildings.
- Regularly inspect and repair water leaks promptly.
- Explore the use of greywater systems for non-potable uses.

c. Educational Programs:

- Integrate water conservation topics into the curriculum and awareness campaigns.
- Offer workshops, seminars, and informational materials on water-saving practices.

5. Monitoring and Reporting

- Implement a system to monitor water usage across various university departments and facilities.
- Regularly analyze and report on water consumption and conservation efforts.
- Encourage feedback from the university community to improve water conservation initiatives.

6. Compliance and Review

- Ensure compliance with local, state, and national water use regulations.
- Conduct periodic reviews to assess the effectiveness of the water conservation measures.

MANIPAL UNIVERSITY JAIPUR

- Adjust policies and practices as needed to improve conservation efforts.

7. Conclusion

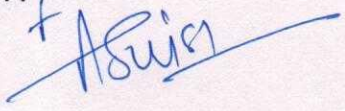
This Water Use and Conservation Policy aims to create a sustainable and responsible approach to water management within the university. By fostering a culture of consciousness and utilizing efficient technologies, the university endeavors to contribute to a more sustainable environment for current and future generations.

This policy shall be communicated to all staff, students, and stakeholders and be subject to periodic review and amendments to meet evolving water conservation standards and best practices.

Version History

Number	Year	Major Revision
Version 3.0	2022	Enhancement of water-saving measures
Version 2.0	2021	COVID 19 Regulations
Version 1.0	2020	Initial policy

Approval



MANIPAL UNIVERSITY
JAIPUR

POLICY FOR DISPOSE OF E-WASTE

Introduction

1. Manipal University Jaipur (MUJ), at its discretion, procured IT equipment's like Laptops, Desktops, Printers /Scanner/screen and storage media etc. for carrying out official work and for day to day functioning of the University. A guideline needs to be formulated to dispose of e-Waste at the regular interval as with each passing year, the e-waste will accumulate in the university

Purpose

2. The purpose of this policy is to define the procedure for dispose of e-waste of the university.

A classification of E-waste

3. All equipment's which are purchased through IT Infrastructure department shall be qualify for declaring e-waste after end of product useful life. The following is the list category of E-waste items.

   a) all End users Devices- Laptop /Desktop/Printers/scanner/photocopiers /storage media/Phones

   b) all IT accessories item- Keyboard/ mouse/LAN cables etc.

   c) all Network devices- Router/firewall/ switch /hub etc.

Procedure

4. All IT equipment's and accessories issued to users and to any department recommended to dispose of centrally through IT Infra department. IT Infra department shall always be in loop for purchasing or dispose of any IT equipment's.

5. The equipment which require to be gifted or sold internally or to product vendor shall be in accordance with another policy on the subject dispose of old workable IT assets by NON-Teaching staff dated **03 JAN 2019** file No: - **MUJ/REGR/ 1467/IT/2019**.

MANIPAL UNIVERSITY JAIPUR

6. IT Infrastructure department shall prepare the list of IT equipment which need to move in E-waste after going through life of product and end of useful life. A committee chaired by Registrar shall decide and accord approval dispose of E-waste.

7. The E-waste declared to dispose of shall be allowed to store in collection center or scrap office maximum period of **90 days** or as per final approval from Chief officer or Registrar.

Ways to Dispose of E-waste

8. A committee formed by Registrar decide to dispose of the E-waste by following ways.
    a. Gives back to OEM or vendor in product buy back offer as special case
    b. Directly dispose off at product companies drop off points.
    c. Donate to society or for charity
    d. Sell off

Enforcement

9. This policy become effective from 17 January 2020.

Ref File No : MUJ/REGR/P/1850/2020

Dated : 17 January 2020

Dr. H Ravishankar Kamath
Registrar
Manipal University Jaipur

MANIPAL UNIVERSITY JAIPUR

Distribution:

All MUJ Users

Manipal University Jaipur
Waste Disposal and Recycling Policy

1. Introduction

Manipal University Jaipur recognizes the importance of responsible waste disposal and recycling to minimize environmental impact and promote sustainability. This policy document outlines our commitment to measuring and reducing the amount of waste sent to landfill while increasing recycling efforts within our university community.

2. Objectives

2.1. Sustainability:

To minimize the environmental impact of waste disposal and promote sustainability through responsible practices.

2.2. Measurement and Reporting:

To accurately measure and report the amount of waste sent to landfill and the volume of waste recycled.

2.3. Education:

To educate and engage the university community in waste reduction and recycling efforts.

3. Definitions

3.1. Landfill Waste:

Waste materials are disposed of in landfills for final disposal.

3.2. Recycling:

The process of collecting, processing, and reusing materials to prevent waste and reduce the demand for raw materials.

4. Waste Management and Recycling Principles

4.1. Source Separation:

MANIPAL UNIVERSITY • JAIPUR •

Manipal University Jaipur promotes source separation of waste, encouraging individuals to separate recyclables from non-recyclables at the point of disposal.

4.2. Recycling Infrastructure:

The university will provide recycling bins and infrastructure to facilitate proper recycling throughout campus.

4.3. Waste Audits:

Regular waste audits will be conducted to assess waste composition, identify opportunities for improvement, and measure progress toward waste reduction goals.

5. Measurement and Reporting

5.1. Waste Metrics:

Manipal University Jaipur will establish metrics to measure the volume of waste sent to landfill and the volume of waste recycled on a regular basis.

5.2. Annual Reporting:

The university will publish annual reports detailing waste disposal and recycling data, progress toward waste reduction goals, and areas for improvement.

6. Education and Engagement

6.1. Education Programs:

Manipal University Jaipur will conduct educational programs, workshops, and campaigns to educate employees, students, and visitors about responsible waste disposal and recycling.

6.2. Community Engagement:

The university will engage the campus community in waste reduction efforts, encouraging participation and behavior change.

MANIPAL UNIVERSITY • JAIPUR •

7. Waste Reduction Initiatives

7.1. Waste Reduction Goals:

The university will establish waste reduction targets to reduce the volume of waste sent to landfill over time.

7.2. Recycling Programs:

Manipal University Jaipur will expand recycling programs to increase the volume of materials recycled.

8. Evaluation and Improvement

8.1. Regular Assessment:

a. This policy will be periodically reviewed to assess its effectiveness in measuring waste disposal and promoting recycling.
b. Feedback from the university community and regulatory agencies will be considered for policy enhancements.

9. Conclusion

Manipal University Jaipur is dedicated to responsible waste disposal and recycling practices, promoting sustainability and reducing environmental impact. This policy document reflects our commitment to measuring and reducing the amount of waste sent to landfill while increasing recycling efforts within our academic community.

Version History

Number	Year	Major Revision
Version 3.0	2022	Establish waste reduction targets
Version 2.0	2021	Special Clauses due to COVID 19
Version 1.0	2018	Initial policy

Approval

MANIPAL UNIVERSITY • JAIPUR •

Manipal University Jaipur
Water Quality Standards and Guidelines for Water Discharges

1. Introduction

Manipal University Jaipur is committed to safeguarding the environment, ecosystems, wildlife, and the health and welfare of our campus community. These Water Quality Standards and Guidelines for Water Discharges outline our commitment to responsible water management practices to maintain high water quality standards. All members of our university community are expected to adhere to these standards to protect our environment and ensure the well-being of all.

2. General Water Quality Standards

a. All water discharges from university operations must comply with local, state, and federal regulations regarding water quality.

b. Water discharges should not pose a threat to ecosystems, wildlife, or human health and welfare.

c. The discharge of pollutants into natural water bodies, stormwater drains, or wastewater treatment systems is strictly prohibited without proper authorization.

3. Pollutant Control Measures

a. All university departments and units must implement measures to minimize the release of pollutants into water discharges. This includes, but is not limited to, controlling chemical, biological, and physical contaminants.

b. Hazardous materials, including chemicals, oils, and toxic substances, must be securely stored, handled, and disposed of in accordance with relevant regulations.

c. The university promotes the use of non-toxic, environmentally friendly alternatives whenever possible to minimize pollutant release.

MANIPAL UNIVERSITY • JAIPUR •

4. Stormwater Management

a. All campus facilities, construction sites, and open areas must have effective stormwater management systems in place to prevent contamination of natural water bodies.

b. Stormwater runoff should be directed away from potential pollutant sources and properly managed to reduce sedimentation and pollution.

c. Any construction or development projects must follow erosion and sediment control practices to prevent soil erosion into stormwater systems.

5. Wastewater Treatment

a. All wastewater generated on campus must be treated in accordance with local wastewater treatment regulations before discharge.

b. The university will invest in and maintain efficient wastewater treatment systems to ensure the removal of contaminants and pollutants.

c. Regular inspections and maintenance of wastewater treatment facilities are essential to ensure their proper functioning.

6. Reporting and Record Keeping

a. Any incidents of water pollution or non-compliance with these standards must be promptly reported to the university's Directorate of Genral Services & Administration.

b. Comprehensive records of water quality monitoring, pollutant control measures, and wastewater treatment activities must be maintained and made available for regulatory inspection.

7. Training and Education

a. All personnel responsible for handling or managing water discharges must undergo training in water quality management and compliance with these guidelines.

MANIPAL UNIVERSITY • JAIPUR •

b. Regular educational programs will be provided to raise awareness among the university community about the importance of water quality protection and responsible water management.

8. Review and Revision

a. These Water Quality Standards and Guidelines for Water Discharges will be reviewed annually to ensure they remain in alignment with evolving local, state, and federal regulations and best practices.

b. Necessary revisions will be made to further enhance water quality protection efforts on campus.

Version History

Number	Year	Major Revision
Version 2.0	2022	Construction or development projects must follow erosion and sediment control practices to prevent soil erosion into stormwater systems
Version 1.0	2020	Initial Guidelines

Approval

MANIPAL UNIVERSITY • JAIPUR •

Manipal University Jaipur is committed to minimizing waste and enhancing sustainability by implementing effective recycling initiatives throughout the campus.

Manipal University Jaipur demonstrates a profound commitment to sustainability that transcends academic boundaries, influencing all facets of campus life. The initiatives implemented to monitor and minimize waste production, while enhancing recycling efforts, reflect the university's strong dedication to environmental responsibility. By establishing ambitious objectives, advocating for waste reduction at the source, improving recycling facilities, partnering with local organizations, and encouraging innovative solutions, Manipal University Jaipur is leading the charge towards a more sustainable and eco-friendly future.

To effectively tackle waste reduction and recycling, Manipal University Jaipur initiated a comprehensive waste audit and evaluation. This involved a detailed examination of the types and volumes of waste produced throughout the campus. This initial assessment provided critical data necessary for pinpointing areas ripe for improvement. Recognizing the importance of setting tangible goals for meaningful change, the university has established specific and measurable targets for waste reduction and recycling that align with its overarching sustainability objectives. A core tenet of Manipal University Jaipur's strategy is to minimize waste at its origin. This includes fostering awareness and motivating the campus community to embrace sustainable practices. The university has implemented awareness initiatives, educated both students and staff on the advantages of waste reduction, and encouraged the use of reusable products to decrease reliance on disposable alternatives. Manipal University Jaipur has enhanced its recycling infrastructure throughout the campus to optimize recycling initiatives. This enhancement includes the installation of strategically located recycling bins, improved signage, and the provision of easily accessible recycling facilities for all members of the university community. As a result of these enhancements, recycling rates have seen a significant increase. The university acknowledges that effective recycling efforts extend beyond its campus. To this end, it collaborates with local recycling partners to ensure that materials are processed in an efficient and sustainable manner. This partnership not only fosters a sense of community but also supports local environmental initiatives.

At the core of Manipal University Jaipur's sustainability initiatives lies innovation. The university has investigated and adopted advanced recycling technologies and practices. Additionally, it has established composting programs that transform organic waste into valuable compost, thereby enriching the green spaces on campus. To ensure accountability and track progress, Manipal University Jaipur consistently measures and reports on waste generation and recycling rates. This commitment to transparency is crucial for driving ongoing improvements and ensuring the university meets its sustainability objectives. Engaging the campus community is vital for the success of the university's waste reduction and recycling programs. Both students and staff actively participate in these initiatives, while student-led sustainability organizations play an essential role in raising awareness and promoting environmentally friendly practices.

Waste management workshop: Manipal University Jaipur recently organized a waste management workshop for the rural community and nearby schools, aiming to spread awareness and practical knowledge on sustainable waste practices. The workshop covered essential topics such as waste segregation, composting, and recycling, equipping participants with skills to manage waste effectively in their daily lives. Engaging activities and demonstrations helped students and community members understand the environmental impact of proper waste management and inspired them to adopt eco-friendly habits. This initiative reflects MUJ's commitment to community outreach and environmental stewardship, fostering a cleaner and greener future for all.

MANIPAL UNIVERSITY
JAIPUR
(University under section 2(f) of the UGC Act)

A+ NAAC

MANIPAL UNIVERSITY
JAIPUR
(University under Section 2(f) of the UGC Act)

Amount of Wate Generated (YoY) at MUJ

Month	Plastic (KG)	Month	Plastic (KG)
Jan-22	21	Jan-23	24
Feb-22	122	Feb-23	119
Mar-22	120	Mar-23	122
Apr-22	384	Apr-23	223
May-22	167	May-23	125
Jun-22	134	Jun-23	233
Jul-22	233	Jul-23	212
Aug-22	244	Aug-23	178
Sep-22	256	Sep-23	289
Oct-22	444	Oct-23	245
Nov-22	376	Nov-23	176
Dec-22	183	Dec-23	198
Total	**2684**	**Total**	**2144**

546, 547, 548

MANIPAL UNIVERSITY JAIPUR

ORIGINAL COPY

TAX INVOICE

Bill To
Laxmi Enterprises
19-18 AJAY VIHAR SHEOPUR, PRTAP NAGAR, SANGANER JAIPUR, Jaipur, Rajasthan 302033
GSTIN: 08CKQPS8291H1Z7
Place of Supply: - RAJASTHAN

Invoice No.	**MUJ/0546/2023-24**
Invoice Date:	**30 / 09 / 2023**
Billing Period:	**Sep - 2023**
Customer Ref.	

Invoice Subtotal	**82,400.00**
SGST	**7,416.00**
CGST	**7,416.00**
IGST	
TCS	
Total	**97,232.00**
Advance Received	
Net Amount	**97,232.00**

S. No.	Particulars	SAC CODE	QTY /Units	Basis / Unit Price	Amount
1	Mota Iron Scrap Sale Scrap Sale	720429	2060	40.00	82,400.00

	Subtotal	**82,400.00**
	SGST 9%	**7,416.00**
	CGST 9%	**7,416.00**
	IGST 18%	
	TCS 1%	
Rupees NinetySeven Thousand Two Hundred ThirtyTwo Only	**Grand Total**	**97,232.00**

Bank Details :-
Account Name :- Manipal University Jaipur
Account No :- 41058604477
IFSC Code :- SBIN0011396
Bank Name :- State Bank of India
Address :- Bhankrota

TIN No. 08282166166
PAN No. AAAJM1881F
GSTIN 08AAAJM1881F1Z6

FOR MANIPAL UNIVERSITY JAIPUR

Authorised Signatory

MANIPAL UNIVERSITY JAIPUR

ORIGINAL COPY

TAX INVOICE

Bill To
Laxmi Enterprises
19-18 AJAY VIHAR SHEOPUR, PRTAP NAGAR, SANGANER JAIPUR, Jaipur, Rajasthan 302033
GSTIN: 08CKQPS8291H1Z7
Place of Supply: - RAJASTHAN

Invoice No.	**MUJ/0547/2023-24**
Invoice Date:	**30 / 09 / 2023**
Billing Period:	**Sep - 2023**
Customer Ref.	

Invoice Subtotal	**305,440.00**
SGST	**27,489.60**
CGST	**27,489.60**
IGST	
TCS	
Total	**360,419.20**
Advance Received	
Net Amount	**360,419.20**

S. No.	Particulars	SAC CODE	QTY /Units	Basis / Unit Price	Amount
1	Chiller Scrap Sale Scrap Sale	84186990	3320	92.00	305,440.00

	Subtotal	**305,440.00**
	SGST 9%	**27,489.60**
	CGST 9%	**27,489.60**
	IGST 18%	
	TCS 1%	
Rupees Three Lakh Sixty Thousand Four Hundred Nineteen Paise Twenty Only	**Grand Total**	**360,419.20**

Bank Details :-
Account Name :- Manipal University Jaipur
Account No :- 41058604477
IFSC Code :- SBIN0011396
Bank Name :- State Bank of India
Address :- Bhankrota

TIN No. 08282166166
PAN No. AAAJM1881F
GSTIN 08AAAJM1881F1Z6

FOR MANIPAL UNIVERSITY JAIPUR

Authorised Signatory

MANIPAL UNIVERSITY JAIPUR

ORIGINAL COPY

TAX INVOICE

Bill To
Laxmi Enterprises
19-18 AJAY VIHAR SHEOPUR, PRTAP NAGAR, SANGANER JAIPUR, Jaipur, Rajasthan 302033
GSTIN: 08CKQPS8291H1Z7
Place of Supply: - RAJASTHAN

Invoice No.	**MUJ/0548/2023-24**
Invoice Date:	**30 / 09 / 2023**
Billing Period:	**Sep - 2023**
Customer Ref.	

Invoice Subtotal	**498,640.00**
SGST	**44,877.60**
CGST	**44,877.60**
IGST	
TCS	
Total	**588,395.20**
Advance Received	
Net Amount	**588,395.20**

S. No.	Particulars	SAC CODE	QTY /Units	Basis / Unit Price	Amount
1	Chiller Scrap Sale Scrap Sale	84186990	5420	92.00	498,640.00

	Subtotal	**498,640.00**
	SGST 9%	**44,877.60**
	CGST 9%	**44,877.60**
	IGST 18%	
	TCS 1%	
Rupees Five Lakh EightyEight Thousand Three Hundred NinetyFive Paise Twenty Only	**Grand Total**	**588,395.20**

Bank Details :-
Account Name :- Manipal University Jaipur
Account No :- 40601753170
IFSC Code :- SBIN0006861
Bank Name :- State Bank of India
Address :- Overseas Branch Bangalore

TIN No. 08282166166
PAN No. AAAJM1881F
GSTIN 08AAAJM1881F1Z6

FOR MANIPAL UNIVERSITY JAIPUR

Authorised Signatory

546, 547
548

Checked by OK
S/Sr Ashok
Code-AM131
Date 14/9/23

।। श्री गणेशाय नमः ।।

सारण धर्म काँटा

चिरोटा रोड़, बगरू, जयपुर (राजस्थान)

फोन : 9928444488

राजस्थान सरकार द्वारा मान्यता प्राप्त कम्प्यूटराईज्ड काँटा

क्रमांक :	3318	कॉपी नं. :	4	गाड़ी नं. :	RJ14GB0495
शुल्क :	80			माल :	
भरा :	4020	कि.ग्रा. तारीख :	14/09/2023	समय :	14:43
खाली :	1960	कि.ग्रा. तारीख :	13/09/2023	समय :	15:02
शुद्ध :	2060	कि.ग्रा.			

24 घण्टे [illegible]

- चालक के बताये अनुसार खाली वजन व माल लिखा है
- ★चालक के बताये अनुसार खाली वजन ।
- वाहन का वजन चालक की उपस्थिति में किया गया ।
- गाड़ी काँटे पर तौल होकर चली जाने के बाद हमारी कोई कोई जिम्मेदारी नहीं होगी ।

तौल क्षमता
100 टन

ऑपरेटर क.[illegible]

SHRI GANPATI PRINTERS, JAIPUR # 9352064648, 9929284141

।। श्री गणेशाय नमः ।।

सारण धर्म काँटा

चिरोटा रोड़, बगरू, जयपुर (राजस्थान)

फोन : 9928444488

chiked by OK
S/o Ashok
Cafe - Amisi
Date 14/9/23

राजस्थान सरकार द्वारा मान्यता प्राप्त कम्प्यूटराईज्ड काँटा

क्रमांक : 3318

कॉपी नं. : 1

गाड़ी नं. : RJ14GB0498

शुल्क : 80

माल :

भरा : कि.ग्रा. तारीख : समय :

खाली : 1960 कि.ग्रा. तारीख : 13/09/2023 समय : 15:02

शुद्ध : कि.ग्रा.

24 घण्टे सेवा

- चालक के बताये अनुसार खाली वजन व माल लिखा है
- ★चालक के बताये अनुसार खाली वजन ।
- वाहन का वजन चालक की उपस्थिति में किया गया ।
- गाड़ी काँटे पर तौल होकर चली जाने के बाद हमारी कोई कोई जिम्मेदारी नहीं होगी ।

तौल क्षमता 100 टन

ऑपरेटर के हस्ताक्षर

MANIPAL UNIVERSITY JAIPUR

Dehmi Kalan, Jaipur - 303007

MATERIAL GATE PASS RETURNABLE / NON RETURNABLE

To Laxmi Enterprises
(Sanganer)

No. 3080
Date : 14/09/2023

(Customer Copy)

The Following Materials may be allowed be taken out by Mr. Ramlakhan Saini
of RJ-14-GG-0498

S.No.	Description of Materials	Qty.	Remarks
1	Chiller Sloted Pipe M.S (Mota Loha) for Sale Material being to MUJ	01 Load	☐ As Replacement ☐ For Approval ☐ For Demonstration ☐ Rejection ☐ For Service ☐ For Remark ☐ For Job Work ☐ Any Other Reasons ☐ to be specified .... ☐ To be returned on ☐ or before............
	Cheked by out Time - 14.30 S/o HarSwr Code HA502 Date - 14/9/23 Outward No. 3005 Date 14/9/23 Checked by HARSHIT SHARMA Sign.... MANIPAL UNIVERSITY JAIPUR	01 Load	

Receiver's Signature
Authorised Signature

Passed by
Directors / Sr. Vice - President / Sr. Manager/ Managers

Authorised Signature 14/09/2023

For SEC

Material being to MUJ

Chiked by out.

Time →

Slw- Har Smy

Code HA502

Date. 12-9-23.

Outward No. 3004

Date 12/09/23

Checked by ...

Sign ...

MANIPAL UNIVERSITY JAIPUR

04 Nos

☐ For Demonstration

☐ Rejection

☐ For Service

☐ For Remark

☐ For Job Work

☐ Any Other Reasons

☐ to be specified

....

☐ To be returned on

☐ or before............

रामलखन

Receiver's Signature
Authorised Signature

Passed by
Directors / Sr. Vice - President / Sr. Manager/ Managers

11/09/2023

Authorised Signature

।। श्री गणेशाय नमः ।।

सारण धर्म काँटा

चिरोटा रोड़, बगरू, जयपुर (राजस्थान)

फोन : 9928444488

Checked by OK
Recorded
Code-GB221

राजस्थान सरकार द्वारा मान्यता प्राप्त कम्प्यूटराईज्ड काँटा

क्रमांक : 3220 कॉपी नं. : 5 गाड़ी नं. : RJ14GL1995

शुल्क : 250 माल :

भरा : 19070 कि.ग्रा. तारीख : 12/09/2023 समय : 19:18

खाली : 13650 कि.ग्रा. तारीख : 11/09/2023 समय : 13:17

शुद्ध : 5420 कि.ग्रा.

24 घण्टे सेवा

- चालक के बताये अनुसार खाली वजन व माल लिखा है
- ★चालक के बताये अनुसार खाली वजन ।
- वाहन का वजन चालक की उपस्थिति में किया गया ।
- गाड़ी काँटे पर तौल होकर चली जाने के बाद हमारी कोई कोई जिम्मेदारी नहीं होगी ।

तौल क्षमता 100 टन

ऑपरेटर के हस्ताक्षर

।। श्री गणेशाय नमः ।।

सारण धर्म काँटा

चिरोटा रोड़, बगरू, जयपुर (राजस्थान)

फोन : 9928444488

राजस्थान सरकार द्वारा मान्यता प्राप्त कम्प्यूटराईज्ड काँटा

Checked by OK
Operator
Code-418221

क्रमांक : 3220 कॉपी नं. : 1 गाड़ी नं. : RJ14GL1995

शुल्क : 250 माल :

भरा : कि.ग्रा. तारीख : समय :

खाली : 13650 कि.ग्रा. तारीख : 11/09/2023 समय : 13:17

शुद्ध : कि.ग्रा.

24 घण्टे सेवा

- चालक के बताये अनुसार खाली वजन व माल लिखा है
- ★चालक के बताये अनुसार खाली वजन ।
- वाहन का वजन चालक की उपस्थिति में किया गया ।
- गाड़ी काँटे पर तौल होकर चली जाने के बाद हमारी कोई कोई जिम्मेदारी नहीं होगी ।

तौल क्षमता 100 टन

ऑपरेटर के हस्ताक्षर

MANIPAL UNIVERSITY JAIPUR

INSPIRED BY LIFE

Dehmi Kalan, Jaipur - 303007

MATERIAL GATE PASS RETURNABLE / NON RETURNABLE

To Laxmi Enterprises (Sanganer)

No. 3077

Date : 12/09/2023

(Customer Copy)

The Following Materials may be allowed be taken out by Mr. Ramlakhan Saini

of RJ-14-GL-1995

S.No.	Description of Materials	Qty.	Remarks
1	Chiller Scrap for sale material being to MUJ Cuiked by out. TIME → S/G. Har Shay Code HA502 Dat. 12-9-23. No. 3003 Date 12/09/23 Checked by HAR SHAY Sign. MANIPAL UNIVERSITY JAIPUR	07 Nos 07 Nos	☐ As Replacement ☐ For Approval ☐ For Demonstration ☐ Rejection ☐ For Service ☐ For Remark ☐ For Job Work ☐ Any Other Reasons ☐ to be specified .... ☐ To be returned on ☐ or before............

रामलखन

Receiver's Signature
Authorised Signature

Passed by
Directors / Sr. Vice - President / Sr. Manager/ Managers

12/09/2023

Authorised Signature

Note Sheet

MUJ/Admin/2023

20 August 2023

S/No	Subject	Ref

Disposal of Chiller's Salvage

1. Four quotation is received from different vendors for scrapping the chiller and the committee members convened for the quotation opening meeting on August 16, 2023, where they evaluated the proposals received from various vendors. Laxmi Enterprise's quotation presents a more favorable price point when compared to the other three vendors.

2. Please find below comparison of the quotations received from the four vendors.

SR No.	Vendor Name	Chiller Scrap Rate/Amount	Iron Pipes Scrape Rate/Amount	Payment Term
1	Laxmi Enterprises	92/ KG	40/KG	7.50 Lacs Advance and rest after billing
2	Kapil Enterprises	7.15 Lacs with GST		
3	M.K. Steel Enterprises	62/KG	35/KG	
4	Balaji Enterprises	54/KG	6.85 Lacs	50% Advance Payment

3. Submitted for approval please.

Director GS&A 22 Aug 23

CF & AO 22/08/2023

23/08/2023

Registrar

Pro President 24/08/2023

President Approved. 24/08/2023

To, purchase 25/08/2023

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा

6362

क्रम संख्या : 60

2

कॉपी नं.:

RJ14GE6318

गाड़ी नं. :

शुल्क : 1780

माल विवरण :

19/07/2023

10:11

भरा कि.ग्रा. तारीख: समय :

खाली कि.ग्रा. तारीख: समय :

शुद्ध कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा

6362

क्रम संख्या : 60

3

कॉपी नं.:

RJ14GE6318

गाड़ी नं. :

शुल्क : 1780

माल विवरण :

19/07/2023

10:11

भरा कि.ग्रा. तारीख: समय :

खाली कि.ग्रा. तारीख: समय :

शुद्ध कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा

6363

क्रम संख्या : 60

कॉपी नं.: 5

गाड़ी नं. : RJ14GL1404

शुल्क : 4730

माल विवरण :

भरा 2280 कि.ग्रा. तारीख: 19/07/2023

समय : 14:16

खाली 2450 कि.ग्रा. तारीख: 19/07/2023

समय : 10:12

शुद्ध कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा

6363

क्रम संख्या : 60

कॉपी नं.: 6

गाड़ी नं. : RJ14GL1404

शुल्क : 4730

माल विवरण :

भरा 2280 कि.ग्रा. तारीख: 19/07/2023

समय : 14:16

खाली 2450 कि.ग्रा. तारीख: 19/07/2023

समय : 10:12

शुद्ध कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा

6562 60 RJ14GE6318

क्रम संख्या : 3230 | कॉपी नं.: 19/07/2023 | गाड़ी नं. : | माल विवरण : 14:19

1780 | कि.ग्रा. तारीख: 19/07/2023 | समय : 10:11

खाली 1450 | कि.ग्रा. तारीख: | समय :

शुद्ध | कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है ।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा

6562 60 RJ14GE6318

क्रम संख्या : 3230 | कॉपी नं.: 19/07/2023 | गाड़ी नं. : | माल विवरण : 14:19

1780 | कि.ग्रा. तारीख: 19/07/2023 | समय : 10:11

खाली 1450 | कि.ग्रा. तारीख: | समय :

शुद्ध | कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है ।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

6363 बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा RJ14GL1404

60

क्रम संख्या :

शुल्क : 2280

कॉपी नं.:

19/07/2023

गाड़ी नं. :

माल विवरण :

10:12

भरा कि.ग्रा. तारीख: समय :

खाली कि.ग्रा. तारीख: समय :

शुद्ध कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है ।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

श्री बालाजी कम्प्यूटराईज्ड काँटा

अजमेर रोड, दहमी कलाँ (बगरू) फोन : 2214039 (R) 9414064039 (M)

6363 बाट व माप विभाग द्वारा प्रमाणित पूर्णतया इलेक्ट्रोनिक काँटा RJ14GL1404

60

क्रम संख्या :

शुल्क : 2280

कॉपी नं.:

19/07/2023

गाड़ी नं. :

माल विवरण :

10:12

भरा कि.ग्रा. तारीख: समय :

खाली कि.ग्रा. तारीख: समय :

शुद्ध कि.ग्रा.

- 24 घन्टे सेवा
- रिकार्ड 6 माह तक ही उपलब्ध होगा।
- वाहन के काँटे से हटने के बाद हमारी जिम्मेदारी नहीं होगी।
- सभी विवादों का न्याय क्षेत्र जयपुर होगा।

नोट : ★ चालक के बताये अनुसार वजन के सामने ★ अंकित है ।

क्षमता 100 टन

वास्ते श्री बालाजी कम्प्यूटराईज्ड काँटा

MANIPAL UNIVERSITY JAIPUR

INSPIRED BY LIFE

Dehmi Kalan, Jaipur - 303007

MATERIAL GATE PASS RETURNABLE / NON RETURNABLE ✓

To: Raj Paper Udyog, Sanganer Jaipur

No. 3012

Date : 19/7/2023

(Customer Copy)

The Following Materials may be allowed be taken out by Mr. of Jahir Mohmad 9314874360.

S.No.	Description of Materials	Qty.	Remarks
-	Old Answer copies removed from Exam cell. Note - Disposal of Old Answer copies as per Instruction of COE / Purchase. [signature] veh - RJ14GE 6318 — खाली 1780 kg, भरा 3230 kg, शुद्ध वजन 1450 kg veh - RJ14GL 1404 — 2280 kg, 4730 kg, 2450 kg CHEcked By — 4060 kg, 7960 kg, 3900 kg Pawan Yadav PG. 248 × 25 97500 Outward No. 2968 Date 19/7/23 Checked by Pawan Yadav Sign. [signature] MANIPAL UNIVERSITY JAIPUR		☐ As Replacement ☐ For Approval ☐ For Demonstration ☐ Rejection ☐ For Service ☐ For Remark ☐ For Job Work ☐ Any Other Reasons ☐ to be specified .... ☐ To be returned on ☐ or before..........

Jahir

Receiver's Signature
Authorised Signature

[signature] 19/07/2023

Passed by
Directors / Sr. Vice - President / Sr. Manager/ Managers

Authorised Signature

MANIPAL UNIVERSITY JAIPUR

Dehmi Kalan, Jaipur - 303007

MATERIAL GATE PASS RETURNABLE / NON RETURNABLE ✓

To Raj Paper Udyog
Sanganer jaipur

No. 3012

Date : 19/7/2023

(Customer Copy)

The Following Materials may be allowed be taken out by Mr.
of jahir Momhad 9314874360

S.No.	Description of Materials	Qty.	Remarks
–	Old Answer copies removed from Exam cell. Note - Disposal of Old Answer copies as per Instruction of COE / Purchase. [signature] Veh - RJ.14GE 6318 — खाली 1780kg. — भरा 3230kg. — शुद्ध वजन 1450kg. Veh - RJ-14GL 1404 — 2280kg. — 4730kg. — 2450kg. CHecked By — 4060 kg. — 7960kg. — 3900 kg. Pawan Yadav PG. 248 — 2968 19/7/23 Pawan Yadav [signature]		☐ As Replacement ☐ For Approval ☐ For Demonstration ☐ Rejection ☐ For Service ☐ For Remark ☐ For Job Work ☐ Any Other Reasons ☐ to be specified .... ☐ To be returned on ☐ or before............

JAHIR
Receiver's Signature
Authorised Signature

[signature] 19/07/2023
Passed by
Directors / Sr. Vice - President / Sr. Manager/ Managers

Authorised Signature

08AAAJM1881F1Z6

MANIPAL UNIVERSITY JAIPUR

1.e-Invoice Details

IRN : bfe05020b41e93446a88d25d15b3d76b **Ack No. :** 172313555904955 **Ack Date :** 30-09-2023 18:26:00
2270753d007a02db0de58f4ff0fb797d

2.Transaction Details

Supply type Code : B2B **Document No. :** MUJ/0548/2023-24 **IGST applicable despite Supplier and Recipient located in same State : No**

Place of Supply : RAJASTHAN

Document Type : Tax Invoice **Document Date :** 30-09-2023

3.Party Details

Supplier :
GSTIN : 08AAAJM1881F1Z6
MANIPAL UNIVERSITY JAIPUR
VILLAGE DEHMI KALAN
SANGANER 303007 RAJASTHAN

Recipient :
GSTIN : 08CKQPS8291H1Z7
Laxmi Enterprises
19-18 AJAY VIHAR SHEOPUR, PRTAP NAGAR, SANGANER JAIPUR, Jaipur, Rajasthan
JAIPUR Place of Supply: RAJASTHAN
302033 RAJASTHAN

4.Details of Goods / Services

SlNo	Item Description	HSN Code	Quantity	Unit	Unit Price(Rs)	Discount(Rs)	Taxable Amount(Rs)	Tax Rate(GST + Cess | State Cess + Cess Non.Advol	Other charges	Total
1	chiller Scrap	84186990	5420	KGS	92	0	498640	18.00 + 0.00 | 0.00 + 0	0	588395.2

Tax'ble Amt	CGST Amt	SGST Amt	IGST Amt	CESS Amt	State CESS	Discount	Other Charges	Round off Amt	Tot Inv. Amt
498640.00	44877.60	44877.60	0.00	0.00	0.00	0.00	0.00	-0.20	588395.00

Generated By : 08AAAJM1881F1Z6
Print Date : 30-09-2023 18:25:48

172313555904955

eSign
Digitally Signed by NIC-IRP
on :2023-09-30 18:26:00

08AAAJM1881F1Z6
MANIPAL UNIVERSITY JAIPUR

1.e-Invoice Details

IRN : e1f9db7b87192139145d9674d165d364 **Ack No. :** 172313555904919 **Ack Date :** 30-09-2023 18:26:00
2422a59736de1d2cac96b1203ca53682

2.Transaction Details

Supply type Code : B2B **Document No. :** MUJ/0547/2023-24 **IGST applicable despite Supplier and Recipient located in same State : No**

Place of Supply : RAJASTHAN

Document Type : Tax Invoice **Document Date :** 30-09-2023

3.Party Details

Supplier :
GSTIN : 08AAAJM1881F1Z6
MANIPAL UNIVERSITY JAIPUR
VILLAGE DEHMI KALAN
SANGANER 303007 RAJASTHAN

Recipient :
GSTIN : 08CKQPS8291H1Z7
Laxmi Enterprises
19-18 AJAY VIHAR SHEOPUR, PRTAP NAGAR, SANGANER JAIPUR, Jaipur, Rajasthan
JAIPUR Place of Supply: RAJASTHAN
302033 RAJASTHAN

4.Details of Goods / Services

SlNo	Item Description	HSN Code	Quantity	Unit	Unit Price(Rs)	Discount(Rs)	Taxable Amount(Rs)	Tax Rate(GST + Cess | State Cess + Cess Non.Advol	Other charges	Total
1	chiller Scrap	84186990	3320	KGS	92	0	305440	18.00 + 0.00 | 0.00 + 0	0	360419.2

Tax'ble Amt	CGST Amt	SGST Amt	IGST Amt	CESS Amt	State CESS	Discount	Other Charges	Round off Amt	Tot Inv. Amt
305440.00	27489.60	27489.60	0.00	0.00	0.00	0.00	0.00	-0.20	360419.00

Generated By : 08AAAJM1881F1Z6
Print Date : 30-09-2023 18:25:48

172313555904919

eSign
Digitally Signed by NIC-IRP
on :2023-09-30 18:26:00

08AAAJM1881F1Z6
MANIPAL UNIVERSITY JAIPUR

1.e-Invoice Details

IRN : 21244168888d997355e392c6dfe12896 **Ack No. :** 172313555904894 **Ack Date :** 30-09-2023 18:26:00
e5d9c69448fda83e408d5f5f621e229c

2.Transaction Details

Supply type Code : B2B **Document No. :** MUJ/0546/2023-24 **IGST applicable despite Supplier and Recipient located in same State : No**

Place of Supply : RAJASTHAN

Document Type : Tax Invoice **Document Date :** 30-09-2023

3.Party Details

Supplier :
GSTIN : 08AAAJM1881F1Z6
MANIPAL UNIVERSITY JAIPUR
VILLAGE DEHMI KALAN
SANGANER 303007 RAJASTHAN

Recipient :
GSTIN : 08CKQPS8291H1Z7
Laxmi Enterprises
19-18 AJAY VIHAR SHEOPUR, PRTAP NAGAR, SANGANER JAIPUR, Jaipur, Rajasthan
JAIPUR Place of Supply: RAJASTHAN
302033 RAJASTHAN

4.Details of Goods / Services

SlNo	Item Description	HSN Code	Quantity	Unit	Unit Price(Rs)	Discount(Rs)	Taxable Amount(Rs)	Tax Rate(GST + Cess | State Cess + Cess Non.Advol	Other charges	Total
1	Sales of Scrap Patla Iron	720429	2060	KME	40	0	82400	18.00 + 0.00 | 0.00 + 0	0	97232

Tax'ble Amt	CGST Amt	SGST Amt	IGST Amt	CESS Amt	State CESS	Discount	Other Charges	Round off Amt	Tot Inv. Amt
82400.00	7416.00	7416.00	0.00	0.00	0.00	0.00	0.00	0.00	97232.00

Generated By : 08AAAJM1881F1Z6
Print Date : 30-09-2023 18:25:48

172313555904894

eSign
Digitally Signed by NIC-IRP
on :2023-09-30 18:26:00

Overview:

This manual enables the operator of the Bio-Urja to emphasize on the systematic methodology to operate the system. The manual is common for all the plants unless specified by the technical team of GPS.

Contents:

1) Introduction to the system.
2) Major Components in the system.
3) Daily Requisite Checks.
4) Slurry Circulation.
5) Waste Addition.
6) Cleaning & Maintenance

Introduction

This document defines the standard operating procedure for the Bio-Urja system, a bio-methanation system installed by GPS Renewables Pvt Ltd.

The bio-methanation system is a high throughput digestion system operating on the food waste feedstock. The gas produced is used daily for the cooking needs in the kitchen where GPS burners have been installed.

Digestion Process

Input of the system consists mainly of food waste and vegetables. This input is fed into the shredder and is mixed uniformly with the slurry (from the reactor) and is pumped into the reactor by using a mixing tank cutter pump.

A temperature of 39 degree Celsius is maintained by using a temperature controller, geyser, little pump and coil (coil is fixed inside the reactor). Once the food waste is fed into the reactor, the anaerobic digestion takes place and it gets bio-methanised as a result of which biogas is formed.

This biogas contains water content, H_2S, CO_2 and Methane. To separate the impurities (Water, H_2S, and CO_2) this gas is passed through a water scrubber, H_2S scrubber and air filter.

From here the biogas is stored in a temporary storage balloon and when the balloon is full; this biogas is compressed and stored in a pressure vessel by using a compressor. Biogas is supplied from the pressure vessel to the kitchen. Through specialized burner biogas are used for cooking.

Major Components in the system:

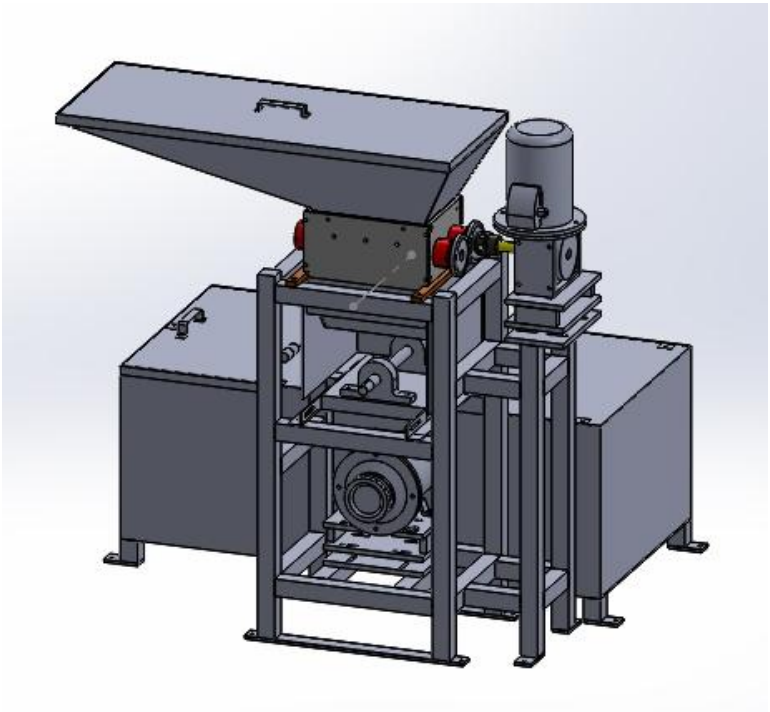
1) The Digester
2) Hydrolyzer with Screw Pump
3) The Input System
4) Scrubbing Unit
5) Automation & Flaring System
6) Balloon Cage
7) Compressor
8) Pressure vessel
9) Heating system

Daily Requisite Checks:

- Remove the water accumulation in the scrubber-1 & scrubber-2.
- Remove the water accumulation in the Compressor tank.
- Check water level in the SS Tank, fill if it is < 75%.
- Check all the valves whether in appropriate position.
- Check all the pipe lines (Slurry & Gas lines) for any break/leak.
- Check whether manual overflow happens by opening the manual overflow valve-1 and inform the same to GPS operation team.
- Note down the pressure value in the pressure vessel pressure gauge and inform the GPS operation team if it is >5bar.
- Clean the SS over flow line once in every 3 days.
- Check & fill the oil level in the compressor once in a week.
- Check and ensure the proper cleaning of Shredder, pulveriser and mixing tank after use on daily basis.
- Maintain the cleanness in the site.

Valve Position Diagram

Shredder



VALVE NOTATIONS

Sl no	Type of Valve	Valve Location	Valve No	Purpose	Color Code
1	Ball Valve	Digester	Valve 1	Overflow Check valve	Yellow
2	Ball Valve	Digester	Valve 2	Maintenance Valve	Red
3	Ball Valve	Digester	Valve 3	Overflow Line	Yellow
4	Ball Valve	Digester	Valve 4	Overflow Line	Yellow
5	Ball Valve	Digester	Valve 5	Slurry Removal from Digester	Dark Green
6	Ball Valve	Digester	Valve 6	Slurry Removal from Digester	Dark Green
7	Ball Valve	Inlet Line of Digester	Valve 7	Control valve for cutter pump and Digester Input	Dark Green
8	Ball Valve	Mixing tank	Valve 8	Valve for re-circulation	Dark Green
9	Ball Valve	Inlet line of Hydrolyzer	Valve 9	Control valve b/w Hydrolyzer Input and Cutter Pump	Dark Green
10	Ball Valve	Hydrolyser drain	Valve 10	Drain for hydrolyser	Red
11	Ball Valve	Inlet line of Screw pump	Valve 11	Valve b/w Hydrolyzer output and Screw pump Input	Dark Green
12	Ball Valve	Outlet line of Screw pump	Valve 12	Slurry circulation valve for Hydrolyser	Dark Green
13	Ball Valve	Outlet line of Screw pump	Valve 13	Control valve b/w Screw pump output and Mixing tank	Dark Green
14	Ball Valve	Drainage	Valve 14	Drainage line connector	Yellow
15	Ball Valve	Hydrolyser	Valve 15	Sample collection from Hydrolyser	Yellow

Color Code for valves

1	Yellow	Valves operated upon Instruction
2	Dark Green	Daily Operational Valves
3	Red	Fixed Position Valves

Over flow & slurry level check:

- Open valve 1 and check over flow of slurry and inform the GPS operation team about the overflow.
- Close valve 1 and remove the appropriate quantity of slurry through the mixing tank as informed by the GPS Operation team.

Procedure to clean the SS Overflow Line:

- First close valve 3 and open valve 4, drain the slurry completely from the pipe later close valve 4 and open valve 3.

Procedure for Slurry Circulation:

For digester:

Step 1: Please ensure valve 8, valve 9, valve 13, valve 14, are in closed condition.

Step 2: Now open valve 5, valve 6. Allow the slurry to fill in the Mixing tank.

Step 3: Make sure that the slurry does not over flow from the mixing tank.

Step 4: Now open valve 7.

Step 5: Switch ON the Mixing tank cutter Pump and feed the collected slurry in the mixing tank into the digester.

Step 6: Repeat the above process for 60minutes.

Step 7: switch OFF the cutter pump.

For hydrolyzer:

Step 1: Ensure the valve 13 is closed and open the Valve 11 which is output from hydrolyzer.

Step 2: Ensure valve 12 is opened.

Step 3: Switch ON the Screw pump to start circulation.

Step 6: Do circulation for 60 minutes after, switch OFF the screw pump and close the valves

11 and then valve 12.

Procedure for taking slurry samples:

From digester:

Step 1: After slurry circulation activity collect the sample in the mixing tank by opening Valve 5, valve 6.

Step 2: Filter the sample thrice and measure exactly 20ml for titration using strainer and syringe.

Step 3: Put back the extra Digester slurry from the mixing tank back into digester.

From hydrolyzer:

Step 1: Open the small 1 inch valve 15 in the hydrolyzer which is given to take the slurry sample. Take half a beaker of the hydrolyzer slurry sample to check the PH.

Procedure for Waste Addition:

To Digester:

Step 1: As per titration result obtained, get information from the GPS operation team about the quantity of waste to be added to the Digester from Hydrolyzer.

Step 2: Ensure Proper circulation of Hydrolyzer slurry before addition.

Step 3: Ensure the drainage valve 14 is closed.

Step 4: Open valve 13, and valve 11 then switch on the Screw pump.

Step 5: Allow little amount of slurry ($1/8^{th}$ of mixing tank) to fill in the mixing tank. Switch OFF the Screw pump and close the valve 13, valve 11.

Step 6: By opening valve 6, allow the digester Slurry to fill in the mixing tank and mix both slurry in the mixing tank by opening circulation valve 8, and ensure valve 9 is closed. Run the cutter pump.

Step 7: Then close the valve 8 and send the slurry to the digester by open the valve 7 & close Valve 6 and run the cutter pump.

Step 8: Repeat the process from Step 4 to Step 7 till it reaches required quantity of hydrolyzer slurry as recommended by the GPS operation team to fill in the Digester from hydrolyser.

To Hydrolyzer Unit:

Step 1: Collect the waste from the canteen/kitchen.

Step 2: Ensure all valves of the mixing tank are in closed position.

Step 3: Weigh up to 25kg of waste and feed the waste into the shredding hopper manually and shred it.

Step 4: Open valve 13, valve 11 then Ensure valve 7, 8, 12 are closed and Switch ON the screw pump.

Step 5: Allow the slurry to fill 50 percent of the total volume of mixing tank.

Step 6: Switch OFF the screw pump and Close valve 13 of Screw pump.

Step 7: Mix the shredded waste with collected slurry in the mixing tank by Switching ON the mixing tank cutter pump. Ensure valve 8, are in open condition and valve 9 is closed for the circulation.

Step 8: Ensure proper mixing and switch OFF the cutter pump.

Step 9: Open Valve 9, and close valve 8.

Step 10: Turn ON the mixing tank cutter pump and allow the mixture to pump into the Hydrolyzer.

Step 11: Repeat Step 3 to 10 until the total amount of waste is being added.

Step 12: Open valve 11 and valve 12 and ensure valve 13 is closed, switch on the Screw pump and allow circulation for 10-15 minutes.

Step 13: Clean the Shredding & Mixing unit thoroughly.

Step 14: If waste is left out, Please ensure that it is properly closed and stored in appropriate place.

Cleaning & Maintenance:

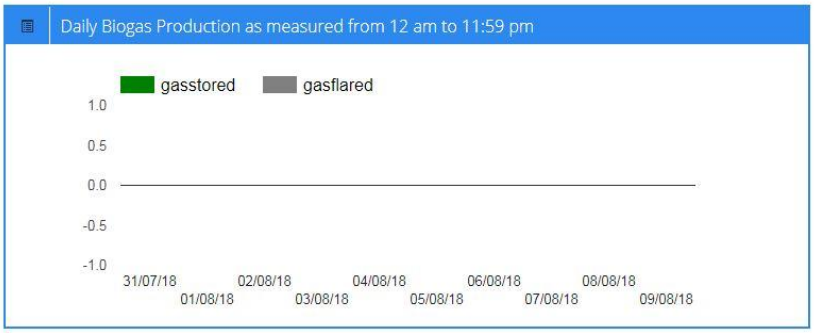
- Ensure all components of the plant are kept in the appropriate position and properly seated.
- Clean the Mixing & shredding unit immediately after use.
- Place the food waste collection bins in the provided space and properly closed.
- All Tools & Tackles used during operations should be removed from plant premises after use and store properly.

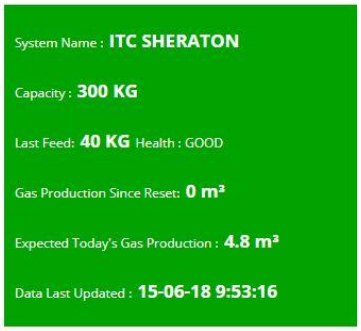
IMEI number:

IMEI NO (GSM Modem-RMS) : *866104025429310*
IMEI NO (GSM Modem-Titrator): *862631037463550*

Dash Board Details:

Dash Board Link: *http://installations.greenpowersystems.co.in/dashboard/bootstrap/dashboard.php*





Recommended Web browser: Google Chrome or Mozilla Firefox .

Dash Board username: *itcsheraton*
Dash Board password: *pass12345*

Scan me

MANIPAL UNIVERSITY
JAIPUR

INSPIRED BY LIFE

MUJ/DSW/Student Clubs/2023/Biotech Club MUJ/28th February

DIRECTORATE OF STUDENTS' WELFARE

Nukkad Natak

ON

Solid Waste Management

Department of Biosciences & Biotech Club, Manipal University Jaipur

Date of Event (28th February, 2023)

(Venue: TMA Pai Auditorium)

Index

Introduction of the Event ,

The Department of Biosciences & Biotech Club, Manipal University Jaipur organized a 'Nukkad Natak' on 'Solid Waste Management' on 28th Feb, 23. It was directed by 2nd year students of Department of Biosciences, Divya and Samrat and it was awe-inspiringly performed by the students. This Nukkad Natak was under the guidance of the convenor – Dr. Mousumi Debnath, Faculty Coordinator, Biotech Club.

The performers interacted with the audience and presented an informatic skit on solid waste management and the do's and don'ts of waste disposal.

This skit was a call to action, urging the audience to take responsibility for their waste and make conscious choices in their daily lives. It was an effective way to educate and engage the public on a crucial environmental issue.

Objectives of the Event

- To increase awareness about solid waste management.
- To bring public awareness about the fatality caused by wastes.
- To educate about the waste disposal methods and its do's and don'ts.

Beneficiaries of the Event

- MUJ Students
- Faculty

Brief Description of the event

Conducted under the guidance of the Founder Faculty Coordinator, Biotech Club, Dr. Mousumi Debnath, Faculty of Biosciences, this Nukkad Natak solely aimed in bringing public awareness on solid waste management. It was well directed by students of Department of Biosciences, Divya and Samrat, who commenced from writing the scripts to directing the performers and eventually operated a successful and inspiring Nukkad Natak.

A group of brilliant and motivated performers presented the Nukkad Natak, bringing attention to the problem of solid waste management through a stirring and thought-provoking performance. The show highlighted the negative consequences of littering and the necessity of effective waste management.

The actors portrayed different characters like a litterbug, a garbage collector, and a responsible citizen who showed how the problem of solid waste management can be tackled. The audience was made conscious of the risks that incorrect garbage disposal poses to both the public's health and the environment.

The play also highlighted the role of the government and the civic bodies in managing solid waste.

In conclusion, the Nukkad Natak on Solid Waste Management held on 28th February on the occasion of National Science Day was a highly successful event that effectively highlighted the issue of solid waste management. The play succeeded in spreading awareness about the importance of proper waste management practices and the role of individuals and the government in tackling this issue.

Photographs

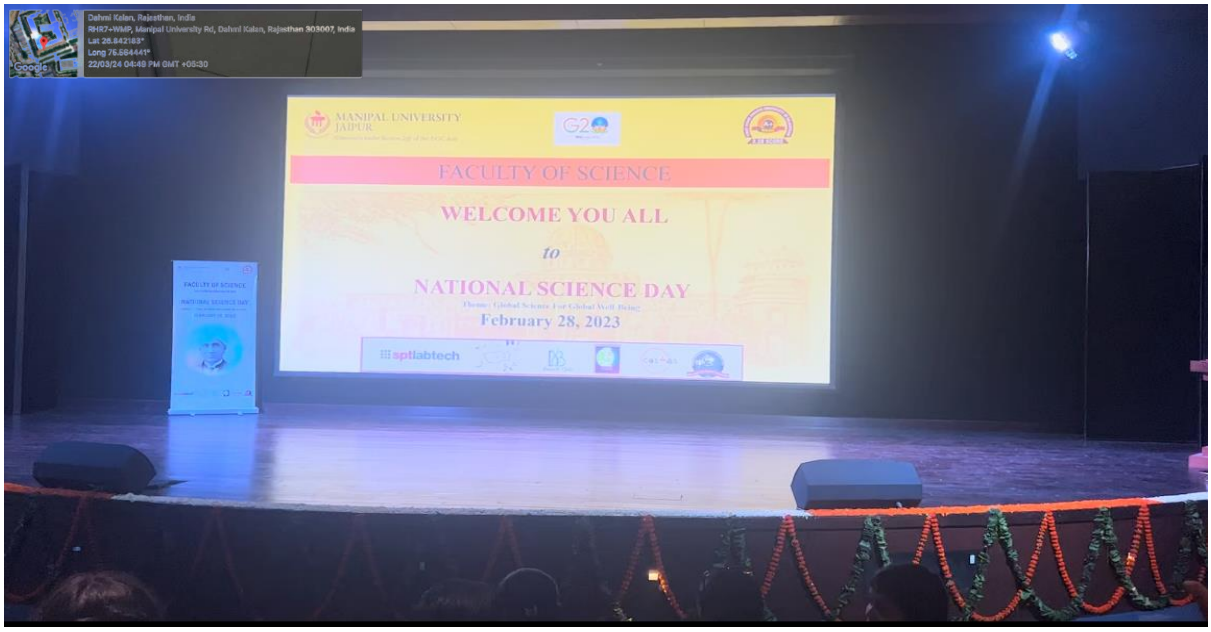


Figure 1 National Science Day; Coordinates: 26.843429; 75.566529; N26°50'36.34" E75°33'59.50"(Manipal University Jaipur)

Figure 2 Nukkad Natak performed by students.; Coordinates: 26.843429; 75.566529; N26°50'36.34" E75°33'59.50"(Manipal University Jaipur)

Figure 3 Nukkad Natak performed by students. Coordinates: 26.843429; 75.566529; N26°50'36.34" E75°33'59.50"(Manipal University Jaipur)

Figure 4 Nukkad Natak performed by students. Coordinates: 26.843429; 75.566529; N26°50'36.34" E75°33'59.50"(Manipal University Jaipur)

Figure 5 Nukkad Natak team and Dr. Mousumi Debnath, Faculty Coordinator, Biotech Club; Coordinates: 26.843429; 75.566529; N26°50'36.34" E75°33'59.50"(Manipal University Jaipur)

Brochure or Creative of the Event

MANIPAL UNIVERSITY
JAIPUR

MANIPAL UNIVERSITY
JAIPUR
(University under Section 2(f) of the UGC Act)

Biotech Club

BIOTECH CLUB OF MUJ

Presents

NUKKAD NATAK

on

SOLID WASTE MANAGEMENT

DATE AND TIME

28th February, 2PM onwards

VENUE

TMA PAI auditorium, MUJ

MANIPAL UNIVERSITY
JAIPUR

INSPIRED BY LIFE

Schedule of the event

The event was on the 28th February 2023 from 2:00 PM- 3:00 PM in TMA Pai Auditorium, Academic Block 2.

Attendance of the event: 38

S.No.	Name	Registration No.
1.	Ananya Singh	201002002
2.	Harsh Saxena	201003004
3.	Anvarshu Gopal	211002011
4.	Anshullika Saxena	211002053
5.	Ayushi Gupta	201002029
6.	Divya	211002056
7.	Sylvia Parveen	211003009
8.	Anushka Singh	211002003
9.	Shivani Tiwari	211002002
10.	Aryan Singh	211002038
11.	Muskan Yadav	211002040
12.	Sakshi Nirmal	211002060
13.	Priyasha Paul	211002035
14.	Akash Chandra	211002036
15.	Shashank Goyal	21102043
16.	Nandini	211003001
17.	Mrunal Mangaje	211003007
18.	Sowvhik Parvej	211002007
19.	Aayushi Thakkar	211002061
20.	Manisha Verma	211002009
21.	Rahul Shrivastava	211002050
22.	Debarghya Sarkar	211002015

23.	Samrat Banerjee	211003008
24.	Sneha Srivastava	211002042
25.	Sonali Lalwani	211002041
26.	Suhani Pareek	211002062
27.	Vishnu Priya	211002028
28.	Tarushi Jain	201003001
29.	Dr. Abhijeet Singh	
30.	Dr. Mousumi Debnath	
31.	Dr. Madan Mohan Sharma	
32.	Dr. Rakesh Sharma	
33.	Dr. Nitesh Poddar	
34.	Dr. Monika Sangani	

Ananya Singh

President, Biotech Cub MUJ

Signature of the Student Coordinator

Dr. Mousmai Debnath

School of Basic Science

Signature of the Faculty Coordinator

DIRECTOR STUDENT WELFARE & PROCTOR
MANIPAL UNIVERSITY, JAIPUR

Dr. Arun Kumar Poonia
Asst. Director, DSW Clubs

MANIPAL UNIVERSITY JAIPUR

School of Architecture and Design

Expert talk
on

'Community Interaction Workshop to Share knowledge on Community Based Solid Waste Management Practices'

Venue: Prithvirajsinghpura, Jaipur, Rajasthan

Time: 11:00 AM onwards

12th May 2023

Index

1. Introduction of the Event:

The School of Architecture & Design at Manipal University Jaipur in association with Mahilla Housing Trust on May 12th, 2023, from 11:00 am onwards, a transformative event unfolded—the "Community Interaction Workshop on Community-Based Solid Waste Management Practices." This gathering served as a platform for knowledge exchange, fostering a collaborative environment where community members shared insights, experiences, and innovative practices in solid waste management. The event aimed to empower participants with practical solutions, strengthening their commitment to sustainable and effective waste management within their communities.

2. Objectives of the Seminar:

- To facilitate the exchange of valuable insights and experiences among community members, promoting a comprehensive understanding of community-based solid waste management practices.
- To provide practical knowledge and tools to empower participants with the skills needed to implement effective and sustainable waste management solutions within their respective communities.
- To foster a collaborative environment to encourage networking and partnership-building among participants, promoting collective efforts towards creating cleaner and healthier communities.

3. Beneficiaries of the Event:

- Common public residing at Prithvirajsinghpura

4. Details of the Expert:

Dr. Madhura is a highly accomplished Architect Planner with 29+ years of experience in Administration, Academics & Research and currently Dean of Faculty of Design at Manipal University Jaipur, and an expert in UPSC, AICTE, CoA and DST Rajasthan & NITI Ayog, Government of India. Her expertise in Sustainable Architecture Design & Planning has been shared through keynotes across universities and governmental bodies. Her scholarly work includes numerous publications and mentoring PhD candidates.

Her research and publications have earned her numerous awards and accolades, including the Indo Pacific Architecture Excellence Award 2021, Education Leadership Award 2019. She is also a UNESCO certified mentor and a member of ICOMOS National Scientific Committee in Working Group of Sustainable Development and in Climate Change and Heritage. She is Fellow Member of various architectural and planning institutes, IGBC etc. contributing to the growth of sustainable and inclusive Design & Planning.

5. Brief Description of the event:

The "Community Interaction Workshop on Community-Based Solid Waste Management Practices" unfolded on May 12th, 2023, from 11:00 am onwards in the rustic setting of Prithvirajsinghpura, a quaint village under the Sanjhariya panchayat in Jaipur, Rajasthan. The event aimed to empower the local community with knowledge and skills for effective waste management. Residents of this rural area actively participated, exchanging insights and experiences. The workshop not only offered practical tools for sustainable waste practices but also facilitated networking and collaboration, fostering a sense of collective responsibility. Amidst the serene surroundings, community members engaged in enriching discussions, contributing to the shared goal of creating a cleaner and healthier environment for Prithvirajsinghpura and its neighboring regions. The event encapsulated a spirit of community collaboration and empowerment, laying the foundation for positive and sustainable changes in solid waste management practices within the rural landscape of Jaipur, Rajasthan.

6. Images

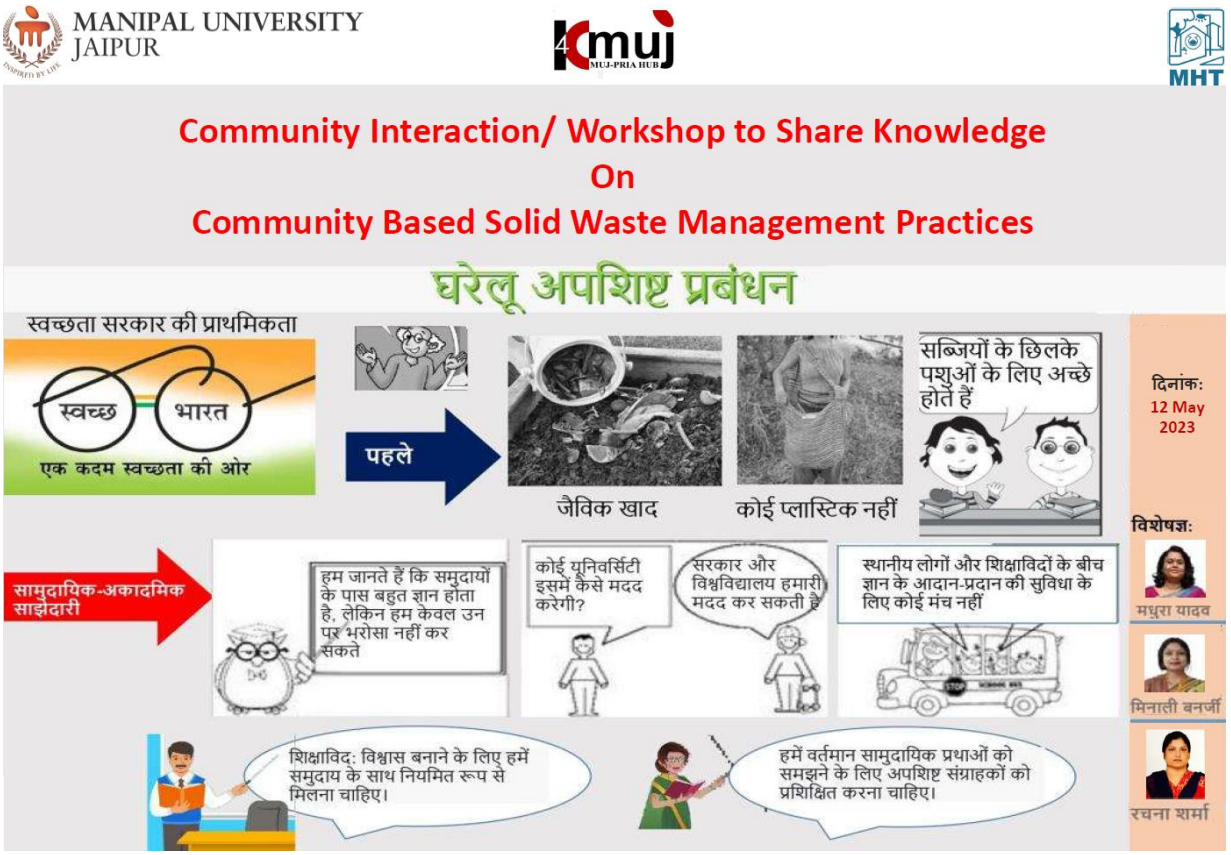
Figure 1: Discussion on Site About Waste Management System

Figure 2: Prof. (Dr.) Madhura Yadav, Delivering about the waste management practice

Figure 3: Prof. (Dr.) Madhura Yadav, Delivering about the waste management practice

Figure 4: Prof. (Dr.) Madhura Yadav, Delivering about the waste management practice

7. Brochure of the Event



8. Schedule of the event

11:00 AM onwards

9. Weblink:

10. Event Coordinators:

Prof. (Dr.) Madhura Yadav (Professor & Dean – Faculty of Design, MUJ)
Ms. Rachna Sharma,
Ar. Akshay Gupta (Assistant Professor, SA&D)

Prof. (Dr.) Sunanda Kapoor
Head, Architecture
School of Architecture & Design, Faculty of Design, MUJ

FACULTY OF DESIGN

SCHOOL OF ARCHITECTURE AND DESIGN

"SAMSARA" at Nehru Children Secondary School, Dehmi Kalan

ON 30th Sep 2023

Date of Event 30th Sep 2023

Index

1. Introduction of the Event

At **Nehru Children Academy Secondary School in Dehmi Kalan**, a pioneering initiative unfolded. This inventive project aims to transform discarded materials into a vibrant space, meeting the school's assembly requirements while emphasizing resource efficiency and community engagement.

With approximately 300 students, the school grappled with challenges like the lack of a dedicated assembly area and inadequate facilities for artistic activities. The selected site within the school grounds proved perfect for this transformative endeavor, aiming to integrate cultural practices, such as shoe removal, into its design seamlessly.

2. Objective of the Event

To create an architectural design that showcases the potential of utilizing pre-used, discarded, or waste material in a new building. To raise public awareness about building sustainability through functional efficacy, resource frugality, and sensory appeal of the design.

To demonstrate the above attributes through a built example that can be used, experienced, and emotionally engaged with by the common public.

To create a functional space using waste material for the betterment of the community, the space can be used for any activity for any age group with a minimum capacity of 6 people.

• Site Selection:

Location-Nehru Children Academy Secondary School, Dehmi Kalan

We visited a private school named 'Nehru Children Academy Secondary School', Dehmi Kalan, witha holding capacity of approximately 300 students with no functional area for assembly gatherings and poor amenities for the students ranging from KG to Grade 10. There is a need to design versatile spaces that can accommodate various artistic disciplines, to create an environment that inspires creativity and promotes a well-rounded education. According to Indian culture, students remove their shoes while entering the premises without any proper arrangement.

3. Beneficiaries of the Event

The beneficiaries of the stage at Nehru Children Academy include students and staff with improved learning and assembly spaces, the local community with a multi-functional gathering area, and the environment through waste reduction and increased awareness of sustainability.

4. Details of the Participants

1. Prof. Raunak Prasad (Asst. Prof.)
2. Divyesh Shankla
3. Chirag Gurnani
4. Kartik Gehlot
5. Riddhi Sorte
6. Aishmeen Kaur
7. Vaishnavi Shukla
8. Aishwarya Singh Rathore
9. Sahib Chagger
10. Khushi Chowdhary
11. Bhavesh Khemka
12. Harsh Srivastava
13. Abhinav Kumar Singh
14. Ikshita Bagla
15. Pranat Kothari
16. Sajal Panwar
17. Rijul Chaudhary
18. Daksh Rupani
19. Arghya Bhagwat
20. Harshita Mundhra
21. Aarya Chandiramani
22. Moulesh
23. Shriya Panwar
24. Yash Dhingra
25. Ridhi Arora
26. Bhoomica Mittal
27. Tanmay Gupta
28. Nalin Sharma
29. Subhrajyoti Dutta Choudhary
30. Aditi Payne
31. Aadhya Mahajan
32. Raghav Mahajan
33. Palak Chawla
34. Abhijeet Yadav
35. Ritwiza

5. Photographs of the event or screenshots of the event with captions

Students performing on the stage created

Image showing the structure created

Utilization of space created during school event

Tree plantation during the event

6. Brochure or creative of the event

7. Attendance of the Event

1. Prof. Raunak Prasad (Asst. Prof.)
2. Divyesh Shankla
3. Chirag Gurnani
4. Kartik Gehlot
5. Riddhi Sorte
6. Aishmeen Kaur
7. Vaishnavi Shukla
8. Aishwarya Singh Rathore
9. Sahib Chagger
10. Khushi Chowdhary
11. Bhavesh Khemka
12. Harsh Srivastava
13. Abhinav Kumar Singh
14. Ikshita Bagla
15. Pranat Kothari
16. Sajal Panwar
17. Rijul Chaudhary
18. Daksh Rupani
19. Arghya Bhagwat
20. Harshita Mundhra
21. Aarya Chandiramani
22. Moulesh
23. Shriya Panwar
24. Yash Dhingra
25. Ridhi Arora
26. Bhoomica Mittal
27. Tanmay Gupta
28. Nalin Sharma
29. Subhrajyoti Dutta Choudhary
30. Aditi Payne
31. Aadhya Mahajan
32. Raghav Mahajan
33. Palak Chawla
34. Abhijeet Yadav
35. Ritwiza

MANIPAL UNIVERSITY
JAIPUR

8. **Post event link:**

https://jaipur.manipal.edu/content/dam/manipal/muj/fod/Document/eventlist/NSS%20REPORT.pdf

Ar. Raunak Prasad

School of Architecture & Design

Signature of the Faculty Coordinator

Ar. Siddharth Mishra

School of Architecture & Design

Signature of the Faculty Coordinator

Prof. (Dr.) Sunanda Kapoor

School of Architecture & Design

HOD, SA&D

Faculty of Design

स्थापित 1998
रजि. क्रं. 561/जय./96-97

मान्यता क्रमांकः शिविरा माध्य/माध्य/अ-4/21313/848/02-03

(राजस्थान सरकार व माध्यमिक शिक्षा बोर्ड, राज. द्वारा मान्यता प्राप्त)

नेहरु चिल्ड्रन एकेडमी माध्यमिक विद्यालय

दहमी कलाँ, बगरू, जयपुर (राज.) 303007
मो. 9252121178, 8952857486

प्रेषक :	प्रेषिति/सेवामें,
प्रधानाध्यापक/सचिव/निदेशक नेहरू चिल्ड्रन एकेडमी माध्यमिक विद्यालय दहमी कलाँ, बगरू, जयपुर (राज.)	श्रीमान् .....Manipal University Jaipur..... ....

क्रमांकः ने. चि. ए. मा. वि./

दिनांक ..18-12-23.....

विषयः

प्रसंगः

Letter of Appreciation

On 30th September 2023, Manipal University Jaipur organized SAMSARA (the Stage Design) in association with NSS (National Service Scheme), DSW (Directorate of Student Welfare, MUJ), and SA&D (School of Architecture & Design) in the campus of Nehru Children Secondary School, Dehmi Kalan.

SAMSARA was conducted by Ar. Siddharth Mishra & Ar. Raunak Prasad, MUJ along with students of 1st, 2nd, and 3rd year Architecture and Students from Nehru Children Secondary School.

We highly appreciate the efforts of Manipal University Jaipur for conducting SAMSARA (the stage design) in the campus of Nehru Children Secondary School, Dehmi Kalan.

HEADMASTER 18/12/23
NEHRU CHILDREN ACADEMY
SECONDARY SCHOOL
DAHMI KALAN (RURAL) JAIPUR

Nehru Children Secondary School, Dehmi Kalan