

SUSTAINABILITY REPORT 2023–24

MIRPUR UNIVERSITY OF SCIENCE
AND TECHNOLOGY (MUST),
MIRPUR AJ&K

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REPORT HIGHLIGHTS



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INTRODUCTION

Higher education institutions must address climate change, resource scarcity, and waste management. MUST has emerged as a proactive institution in AJ&K by adopting an institution-wide approach.

This report highlights the initiatives, achievements, and future directions of the university's sustainability journey during the academic year 2023–24.

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MESSAGE FROM OUR VICE CHANCELLOR

It is with immense pride that I present this Report. The year 2023–24 marks a significant turning point for MUST in its commitment to sustainability and environmental stewardship.

Our success is defined by two major milestones: the launch of our Zero Waste Policy and the inauguration of the Rainwater Harvesting Project. These actions align MUST with the UN Sustainable Development Goals (SDGs).

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OUR COMMITMENT TO SDGS

SDG 6: CLEAN WATER	SDG 7: CLEAN ENERGY
Rainwater Harvesting Project on campus to address water scarcity.	Solar and Biogas Plant Installation at Kashmir Orphan Relief Trust.
SDG 12: Responsible Consumption	SDG 15: Life on Land
Zero Waste Management Policy with 70% waste diversion pledge.	Multiple Plantation Drives to enhance green cover and biodiversity.

WATER & WASTE MANAGEMENT

Zero Waste Management Policy MUST's commitment to a circular economy model starts with its Zero Waste Policy (Oct 2023). Target: 70% Waste Diversion by December 2025. Focus areas include source reduction, segregation, and composting.

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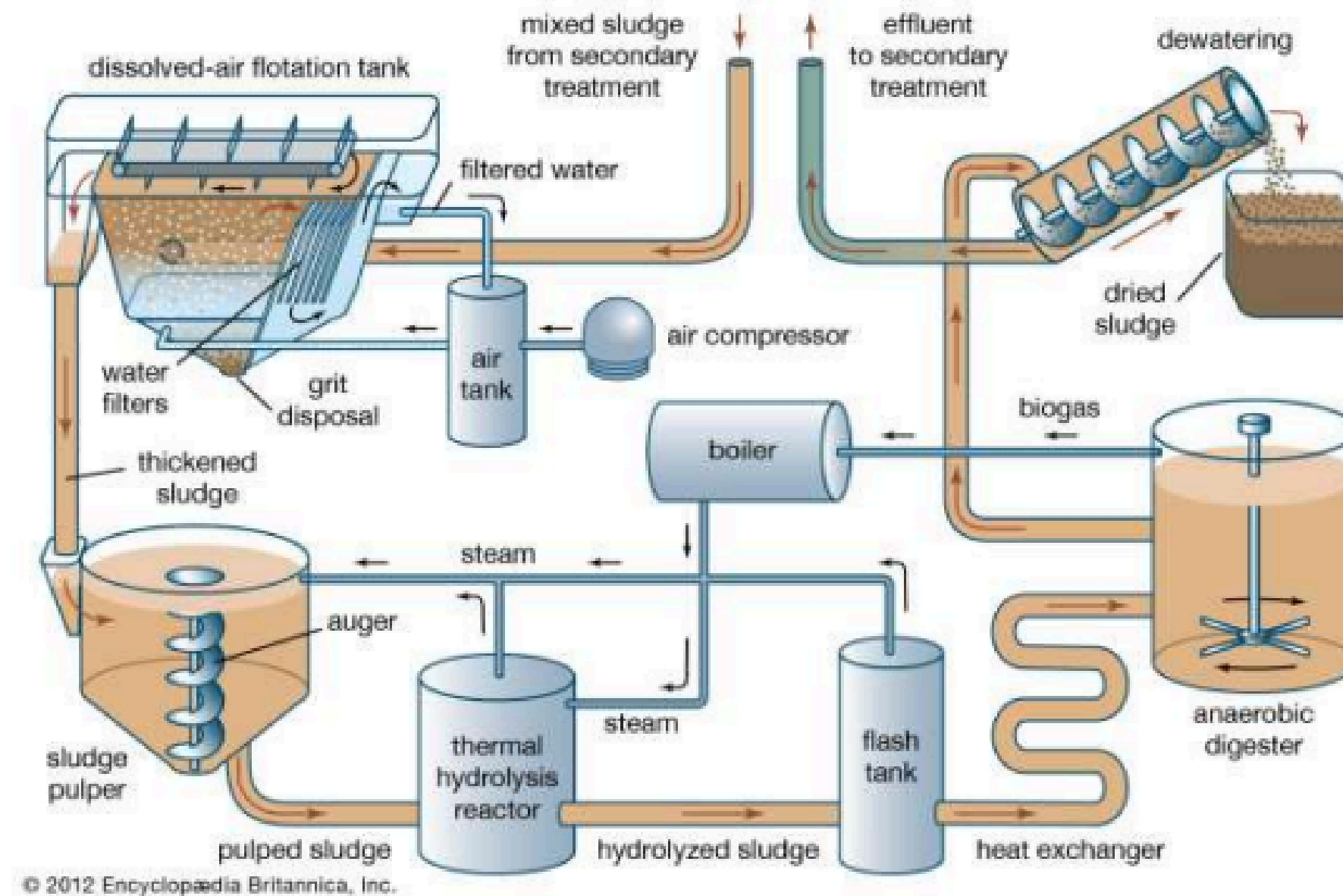


Fig: Sketch of Waste Water Treatment Plant

The wastewater treatment project at MUST City Campus represents a vital investment in the university's environmental sustainability and long-term resource management. Through the adoption of modern treatment technologies, the university will contribute to water conservation efforts, improve public health outcomes, and set an example for other institutions in the region. This project aligns with global environmental standards and is a step towards building a more resilient and sustainable campus for future generations.

RAINWATER HARVESTING - PROJECT OBJECTIVE

Rainwater Harvesting: Ensuring Water Security
Inaugurated in February 2024, this project is pivotal for water conservation. It reduces reliance on municipal sources and mitigates water scarcity risks.



RAINWATER HARVESTING - TECHNICAL INFRASTRUCTURE

System Details The infrastructure includes large-scale collection surfaces, piping networks, and dedicated storage tanks to capture and store monsoon rainfall for non-potable use.

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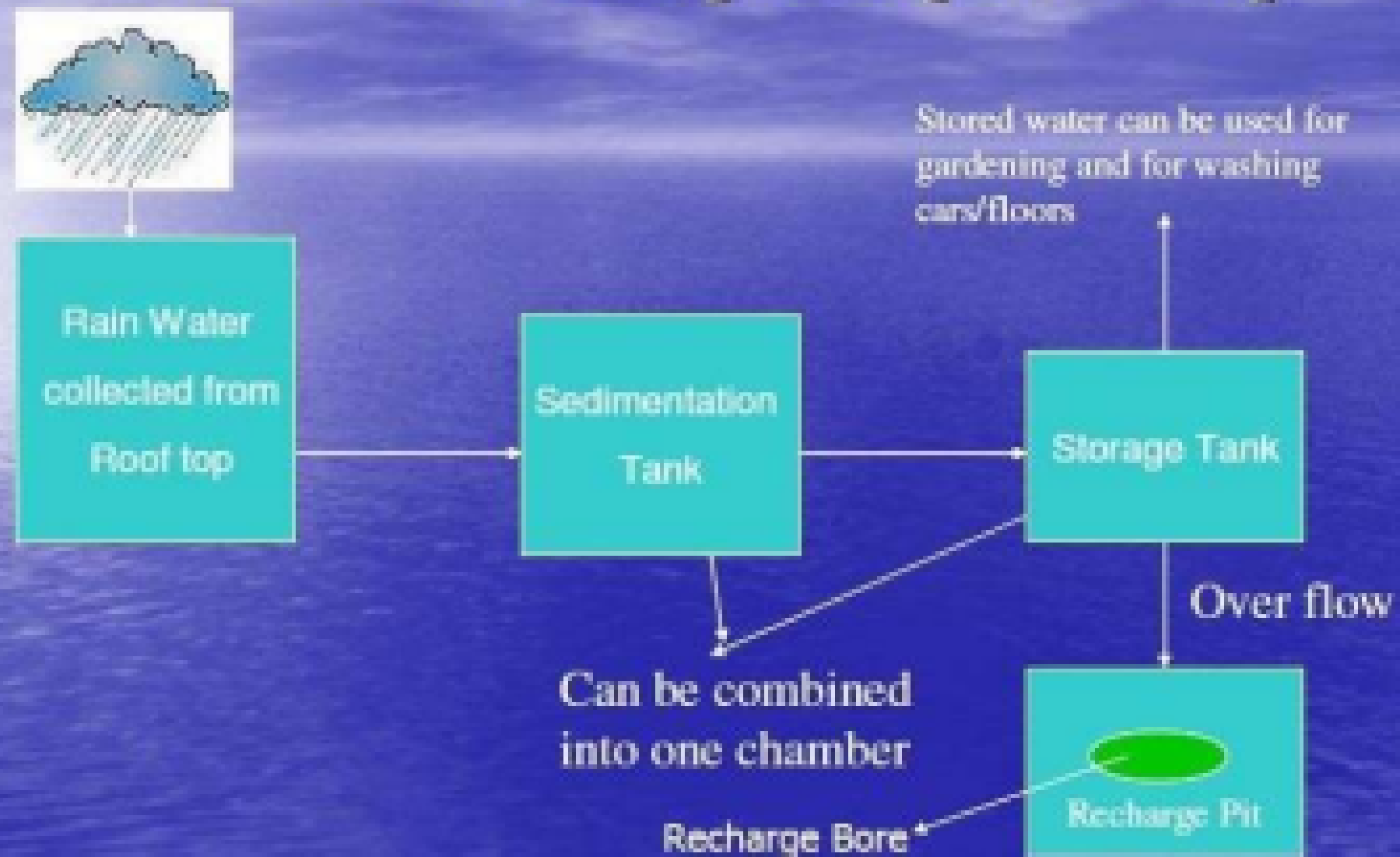
RAINWATER HARVESTING - LEARNING AND ENGAGEMENT

Educational Value The project serves as a live laboratory for Engineering and Environmental Science students, integrating sustainability into the curriculum.

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Rain Water Harvesting-Storage+Recharge



FUTURE PLANS: WATER, WASTE, AND ENERGY AUDITS



EXPAND RWH INFRASTRUCTURE

To cover all campuses and ensure water security across the entire institution.

INSTITUTIONALIZE SUSTAINABILITY AUDITS

Regular audits of energy, water, and waste systems to track KPIs and progress towards Zero Waste goals.

Renewable Energy Transition

Exploring solar power expansion for energy needs, reducing dependence on non-renewable sources.



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SDG 7 AND 10: COMMUNITY SERVICE PROJECT

Solar and Biogas Plant Installation MUST provided essential Community Services to Kashmir Orphan Relief Trust by installing renewable energy solutions. This addressed energy poverty and provided clean power to a local institution.

COMMUNITY PROJECT EXECUTION

This high-impact project showcases MUST's commitment to social responsibility and applying technical expertise for societal benefit.



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SDG 15: PLANTATION DRIVES - ENHANCING GREEN COVER

Plantation Drives: Fighting Climate Change Multiple plantation drives were held to enhance green cover and beautify the campus. These activities promote biodiversity and carbon sequestration.





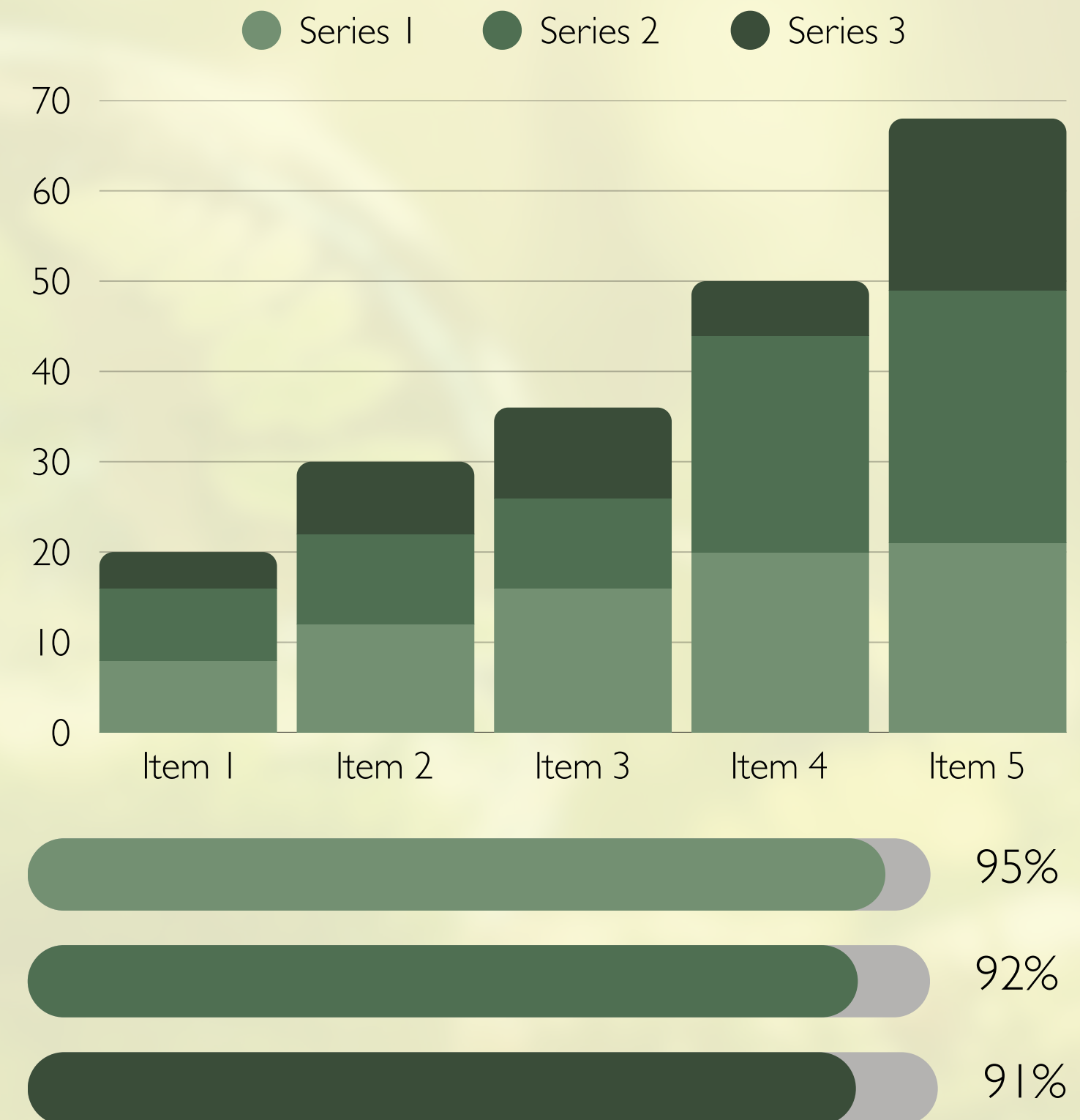
PLANTATION DRIVES - PARTICIPATION AND IMPACT

Fostering Environmental Responsibility
The drives saw active participation from all segments of the university, reinforcing the idea that sustainability is a collective effort.



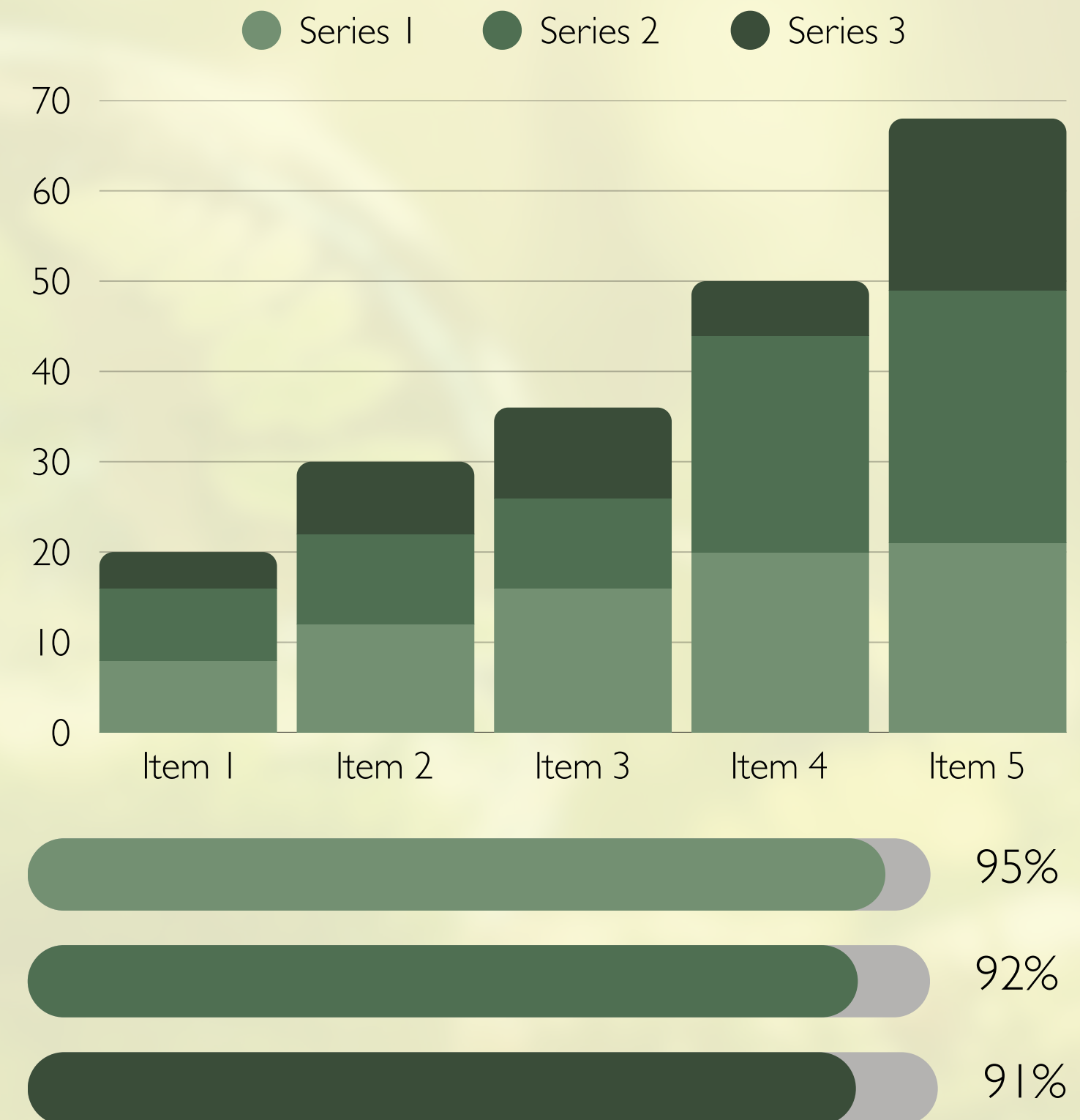
SDG 16: LEGAL AND FINANCIAL EXCELLENCE

Successful Recovery of Rs. 25 Crore MUST demonstrated exceptional legal acumen by successfully recovering Rs. 25 Crore from Jubilee Life Insurance Company Limited. This showcases strong institutional governance.



SDG 4 AND 9: RESEARCH AND INNOVATION (FYDPS)

Financial Funding for 10 FYDPs Engineering Faculty and Students secured Financial Funding for Ten Final Year Design Projects (FYDPs) from PEC Islamabad. This establishes MUST as a leading institution for practical research in AJ&K.



INNOVATION SHOWCASE AND TECHNOLOGY FOCUS

AI-Based Software Projects Exhibition The successful exhibition highlighted MUST's strength in cutting-edge technologies, preparing students for the future job market.

SDG 17: PARTNERSHIPS FOR DEVELOPMENT

01

Industry Placement MoU

Lineman Pvt. Ltd. Signed for the placement of Final-Year MIT Students, bridging academia and industry.

02

Energy Consultancy MoU

Siraj Industries MoU inked for providing expertise in sustainable energy solutions (direct link to sustainability).





KEY ACHIEVEMENTS AT A GLANCE



FINANCIAL PRUDENCE	ENVIRONMENTAL COMMITMENT
Rs. 25 Crore recovered from Jubilee Life.	70% Waste Diversion Pledge by Dec 2025.
Water Security	Research Excellence
Rainwater Harvesting Project inaugurated.	10 Final Year Design Projects (FYDPs) funded.

WAY FORWARD: STRATEGIC GOALS



INFRASTRUCTURE EXPANSION	GLOBAL BENCHMARKING
Expand Rainwater Harvesting Infrastructure to cover all campuses.	Actively pursue recognition in sustainability rankings and certifications (International Recognition).
Community Outreach	Operational Efficiency
Broader Community Engagement by expanding outreach to local schools, and industries.	Institutionalize Sustainability Audits of energy, water, and waste systems.











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Project name	Participants
MUST, Mirpur inks MoU with Divisional Headquarters Teaching Hospital Mirpur AJ&K	105
Software Engineering of MUST, Mirpur & Special Communication Organisation (SCO), Mirpur organised Entrepreneurs XTech'24 Gala at Mirpur University	110
CS&IT Department of Mirpur University organised AI Based Innovative Software Projects Exhibition	80
Students from Mass Communication Department of MUST, Mirpur participated in Inter-Services Public Relations (ISPR) arranged Visit to Jari Kas Garrison to gain Real-World insights into Conflict Reporting	130
Engineering Faculty & Students of Mirpur University accomplished Financial Funding for Ten Final Year Design Projects (FYDPs), in multiple projects within a single year from Pakistan Engineering Council (PEC) Islamabad, further establishing its prominence as a leading institution of Azad Jammu and Kashmir (AJ&K)	155
Deputy Commissioner & SSP Mirpur Speak at “Youth Awareness Talk” by Paradigm Association, MUST, Mirpur AJ&K	180
MUST, Mirpur inks MoU with Lineman Pvt. Ltd for the placement of Final-Year MIT Students in the Industry	95
MUST, Mirpur provides Community Services to kashmir Orphan Relief Trust (Solar and Biogas Plant Installation)	35
MUST, Mirpur inks MoU with Siraj Industries For Providing Energy	10

CONCLUSION: A MODEL FOR GREEN CAMPUSES



The Year in Review

The academic year 2023–24 has been a defining chapter in MUST's sustainability journey. We have nurtured a culture of responsibility and awareness through policy and action.



Final Vision

MUST has shown that universities can be at the forefront of combating climate change. We are poised to serve as a model for green campuses, where academic excellence and environmental responsibility go hand in hand.



THANK
YOU