

## Research Centre with a specific focus on Environmental Sustainability

### Table of Contents

	<b>Particular</b>	<b>Page</b>
1.	Research Centre on Environmental Sustainability	1
1.1	Environment Science Research Lab	3
1.2	List of Equipments	4
1.3	List of Publications and Intellectual Property Rights	4
2.	Centre of Excellence in Sustainable Engineering & Climate Change	09
3.	Research Projects funded by Royal Academy of Engineering, UK in Collaboration with Advanced Technology Institute, University of Surrey, United Kingdom	11
4.	Research Project on Advancing Green Hydrogen Production through Electrolysis: Optimization and Renewable Energy Integration funded by Royal Academy of Engineering, UK under Newton Bhabha Fund	12
4.1	List of Equipments	14
4.2	List of Publications	15
5	Full-Time Equivalent Staff in Research Centre	16
6	Environmental Sciences R & D Laboratory	17
7	Publications on SDGs	23

## **Research Centre on Environmental Sustainability**

In today's world, where rapid industrialization, climate change, and ecological degradation pose serious threats, the need for sustainable solutions has become more urgent than ever. Recognizing this critical challenge, Parul University has established the Research Centre for Environmental Sustainability—a dedicated space committed to driving meaningful research, fostering innovation, and shaping policies that can make a real difference. The Centre acts as a collaborative hub, uniting researchers, industry professionals, policymakers, and environmental advocates. By working together across disciplines, we aim to develop practical, scalable solutions that address pressing environmental issues—not just in theory, but in ways that create tangible impact. Because sustainability isn't just about ideas—it's about action. It's about finding smarter ways to protect our planet while ensuring a better future for generations to come.

With a strong focus on applied research, consultancy, and community engagement, the Centre has secured multiple research grants from prestigious funding agencies and has been actively involved in Environmental Audits and Compliance projects assigned by regulatory bodies such as the Gujarat Pollution Control Board (GPCB). This document outlines the Centre's key initiatives, research projects, consultancy services, and future vision in fostering environmental sustainability.

### **Research Focus Areas**

The Research Centre for Environmental Sustainability at Parul University focuses on several critical domains, aligning with national and global sustainability goals, including the United Nations Sustainable Development Goals (SDGs). The key research areas include:

- Waste Management and Circular Economy
- Renewable Energy and Carbon Footprint Reduction
- Water Conservation and Pollution Control
- Climate Change Adaptation and Mitigation

### **Environmental Audits**

Beyond academic research, the Centre plays a crucial role in environmental consultancy, offering

expertise to industries, government agencies, and NGOs.

The Centre is an empaneled Environmental Auditor with the Gujarat Pollution Control Board (GPCB), conducting:

- Comprehensive Environmental Audits for industries to ensure regulatory compliance.
- Pollution load assessment and mitigation strategies for factories.
- Environmental Impact Assessments (EIA) for infrastructure projects.

### **Academic Integration & Teaching Contributions**

The Centre is deeply embedded in Parul University's academic framework, enhancing education through:

#### *Curriculum Development*

- Designing and updating courses in Environmental Engineering, Sustainability Studies, and Climate Science.

#### *Teaching & Supervision*

- Faculty members teach specialized courses in Environmental Engineering, Sustainability Studies, and Climate Science.
- Supervising PhD scholars, Master's dissertations, and undergraduate projects annually.

#### *Hands-on Learning & Research Exposure*

- Providing student internships and fieldwork in sustainability projects.
- Conducting workshops, seminars, and industry visits for practical exposure.

### **Secured Research Grants and Funded Projects**

The Centre has successfully secured competitive research grants from national and international funding agencies, enabling high-impact projects. Some notable funded initiatives include:

- "Water Quality of Ground Water and River Water and Identification of Causative Microorganisms Causing Water-Borne Diseases and Epidemiological Studies in the State of Gujarat"

- Principal Investigator: Prof. M. H. Fulekar, Sr. Professor & Joint Director (R&D)
- Scope: This project investigates water contamination sources, pathogenic microorganisms, and their public health impacts, providing critical data for water safety policies in Gujarat.

## **Environment Science Research Lab**

The Environmental Science research laboratory has been developed with water quality assessment and microbial assessment equipment funded by the ICMR, New Delhi.

Project cost: 1.5cr

Principal Investigator: Prof. M. H. Fulekar, Sr. Professor & Joint Director (R&D)

Project title: Water Quality of Ground Water and River Water and identification of Causative Microorganism causing water borne diseases and Epidemiological studies in the state of Gujarat.

The study has been designed in the North, East, and South and West part of the Gujarat with specific location to study the ground water; besides the river Sabarmati in Gujarat identified to study the surface water pollution status causing water-borne disease leading to epidemiological disorders. The research study will give the output - status of the groundwater and surface water, water-borne disease and epidemiological disorder.

The research study: scope and output:

1. Status of quality of water and river water in complaints with physical, chemical parameters.
2. Status indicating the level of Heavy metals and organic contaminants.
3. Status of microbial assessment in particular the level of pathogens – bacterial, viral, protozoa and fungal.
4. Status of water borne diseases in identified regions of Gujarat state.
5. Status of epidemiological health related disorder due to water borne diseases.

The research study on water quality assessment of ground water and river water comprising physical, chemical and microbial status, water borne diseases and epidemiological disorders status will give the first-hand report of Gujarat state.

**List of equipments procured under the project**

- pH meter
- Thermometer
- Desiccator
- Refrigerator
- Hot air oven
- Analytical balance
- Autoclave
- Laminar Air Flow
- Incubator-shaker
- Magnetic stirrer
- BOD incubator
- Deep freezer
- Conductivity meter
- Hot plate
- COD digester
- Fume Hood
- Conductivity meter
- Distillation Unit
- TDS meter
- Salinity meter

**List of Paper Publication**

Name of Author/s	Title of publication in AMA style	Impact factor of journal	Journal Name
Modi S.; Yadav V.K.; Amari A.; Osman H.; Igwegbe C.A.; Fulekar M.H.	Nano bioremediation: A Bacterial Consortium-Zinc Oxide Nanoparticle-Based Approach for the Removal of Methylene Blue Dye from Wastewater. (2023)	5.190	Environmental Science and Pollution Research



Yadav V.K.; Amari A.; Wanale S.G.; Osman H.; Fulekar M.H.	Synthesis Of Floral-Shaped Nano silica from Coal Fly Ash and its Application for the Remediation of Heavy Metals from Fly Ash Aqueous Solutions. (2023)	3.3	Sustainability (Switzerland)
Modi S.; Yadav V.K.; Amari A.; Alyami A.Y.; Gacem A.; Harharah H.N.; Fulekar M.H.	Photocatalytic Degradation of Methylene Blue Dye from Wastewater by using Doped Zinc Oxide Nanoparticles. (2023)	3.0	Water (Switzerland)
Modi S.; Yadav V.K.; Ali D.; Choudhary N.; Alarifi S.; Sahoo D.K.; Patel A.; Fulekar M.H.	Photocatalytic Degradation of Methylene Blue from Aqueous Solutions by using Nano-Zno/Kaolin-Clay-Based Nanocomposite. (2023)	3.0	Water (Switzerland)
Yadav V.K.; Amari A.; Mahdhi N.; Elkhaleefa A.M.; Fulekar M.H.; Patel A.	A Novel and Economical Approach for the Synthesis of Short Rod-Shaped Mesoporous Silica Nanoparticles from Coal Fly Ash Waste by Bacillus Circulans Mtcc 6811. (2023)	4.0	World Journal of Microbiology and Biotechnology
Modi S, Yadav VK, Amari A, Osman H, Igwegbe CA, Fulekar MH.	Nano bioremediation: a bacterial consortium-zinc oxide nanoparticle-based approach for the removal of methylene blue dye from wastewater. (2023)	5.190	Environmental Science and Pollution Research
Yadav VK, Amari A, GacemA, Elboughdiri N, Eltayeb LB, Fulekar MH	Treatment of Fly-Ash-Contaminated wastewater Loaded with Heavy Metals by Using Fly- Ash-Synthesized Iron Oxide Nanoparticles. (2023)	3.530	Water (Switzerland)



Yadav VK, Amari A, Wanale SG, Osman H, Fulekar MH.	Synthesis of Floral-Shaped Nano silica from Coal Fly Ash and Its Application for the Remediation of Heavy Metals from Fly Ash Aqueous Solutions. (2023)	3.889	Sustainability
Rai A, Amari A, Yadav VK, Fulekar MH. et al.	A Synergistic Effect of Moringa oleifera-Based Coagulant and Ultrafiltration for the Wastewater Treatment Collected from Final ETP. (2022)	4.373	Adsorption Science & Technology
Ravi RK, Singh M, Fulekar MH. Biomass	Bioconversion dynamics for bioremediation of chlorpyrifos pesticide using bacterial consortia in two immiscible liquid phase partitioning bioreactors. (2021)	4.050	Biomass Conversion and Biorefinery
Kumar P, Fulekar MH.	Cadmium phytoremediation potential of Deenanath grass (Pennisetum pedicellatum) and the assessment of bacterial communities in the rhizospheric soil (2022)	5.190	Environmental Science and Pollution Research
Khan SH, Pathak B, Fulekar MH.	A study on the influence of metal (Fe, Bi, and Ag) doping on structural, optical, and antimicrobial activity of ZnO nanostructures. Advanced Composites and Hybrid Materials (2020)	11.806	Advanced Composites and Hybrid
Kumar P, Fulekar MH, Hiranmai RY, Kumar R, Kumar R.	16S rRNA molecular profiling of heavy metal tolerant bacterial communities isolated from soil contaminated by electronic waste. (2020)	2.629	Folia Microbiologica



Yadav VK, Fulekar MH.	Advances in Methods for Recovery of Ferrous, Alumina, and Silica Nanoparticles from Fly Ash Waste. (2020)	2.8	Ceramics
Modi S, Fulekar MH.	Synthesis and characterization of zinc oxide nanoparticles and zinc oxide/cellulose nanocrystals nanocomposite for photocatalytic degradation of Methylene blue dye under solar light irradiation. (2020)	5.25	Nanotechnology for Environmental Engineering
Chavan A, Fulekar MH.	Enhanced degradation efficiency of mixed industrial effluent by modified nanocomposite photocatalyst under UVLED irradiation (2020)	5.25	Nanotechnology for Environmental Engineering
Modi S, Fulekar MH.	Green Synthesis of Zinc Oxide Nanoparticles Using Garlic Skin Extract and Its Characterization. (2020)	1	Journal of nano structure
Kumar P, Fulekar MH.	Multivariate and statistical approaches for the evaluation of heavy metals pollution at e-waste dumping sites. (2019)	2.6	SN Applied Sciences
Pandit PR, Fulekar MH.	Biodiesel production from microalgal biomass using CaO catalyst synthesized from natural waste material (2019)	8.7	Renewable Energy

Kumar Yadav V, Fulekar MH.	Green synthesis and characterization of amorphous silica nanoparticles from fly ash. (2019)	3	Materials Today: Proceedings
Virendra Kumar Yadava and M. H. Fulekar	Remediation of selected heavy metals (Pb, Cd) from fly using magnetite nanoparticles (2019)	0.2	J. Indian Chem. Soc
Pandit PR, Fulekar M.	Biodiesel production from Scenedesmus armatus using egg shell waste as nano catalyst. (2019)	-	Materials Today: Proceedings

**List of Book Publications**

Name of Author	Name of Book	Publisher	ISBN No.
Fulekar MH, Dubey RS.	Climate Change and Sustainable Development (2023)	CRC Press	eBook ISBN9781003205548
Fulekar MH, Pathak B.	Bioremediation Technology (2020)	CRC Press	eBook ISBN9780367273101

**Intellectual Property Rights**

Intellectual Property	Application Number	Title	Status
Indian Patent	202221051959	A system and apparatus for solid waste management of CETP with and its Conversion into bio-fertilizer	Filed and published
Indian Patent	202221065279	Rhizo bio-nano technology for Remediation of dye-industrial waste	Filed and published

## **Centre of Excellence in Sustainable Engineering & Climate Change**

The Centre of Excellence in Sustainable Engineering & Climate Change at Parul University is a pioneering initiative dedicated to addressing the pressing global challenges of environmental degradation and climate change. The center aims to foster interdisciplinary research, innovative engineering solutions, and knowledge dissemination in the field of sustainability. It serves as a collaborative platform for students, researchers, industry experts, and policymakers to develop and implement green technologies, promote renewable energy, and enhance sustainable practices across sectors. With a strong focus on innovation, community impact, and academic excellence, the center is poised to become a national leader in driving sustainable development and climate resilience.

### **Key Initiatives:**

1. **Eco-Friendly Campus Practices:** Parul University has been recognized among India's sustainable institutions, earning a Grade A++ for its eco-friendly practices. The campus features zero-emission vehicles, effective waste segregation, and the use of renewable energy sources, reflecting its dedication to environmental conservation.
2. **Community Engagement and Environmental Awareness:** The Centre conducts workshops, campaigns, and field projects to address real-world issues like oil spills and pollution, aligning with the UN Sustainable Development Goals
3. **Green Hydrogen Research Collaboration:** In collaboration with the University of Surrey and Linde Engineering India, and funded by the Royal Academy of Engineering (UK), the university is working on optimizing green hydrogen production via electrolysis.
4. **Research on Membrane Technology for Climate Mitigation:** Ongoing research explores innovative membrane technologies for carbon capture and emission reduction, contributing to cost-effective and scalable climate solutions.
5. **Sustainable Online Education Practices:** Aligning with its commitment to sustainability, the Centre has implemented eco-friendly practices in its online education platforms. By utilizing Open Educational Resources (OER) and energy-efficient digital infrastructure powered by renewable energy sources, the Centre minimizes its carbon footprint while promoting accessible and sustainable learning environments.



Building on its strong foundation, the Centre of Excellence in Sustainable Engineering & Climate Change continues to serve as a catalyst for innovation and collaboration in solving environmental challenges. The Centre not only nurtures cutting-edge research in renewable energy, climate mitigation, and green infrastructure but also empowers students and faculty to apply their knowledge in real-world contexts.

Through strategic partnerships with international universities, government agencies, and industry leaders, the Centre provides a platform for interdisciplinary dialogue and joint projects. Its ecosystem supports the incubation of sustainable technologies, policy development, and the translation of research into scalable solutions.

## Research Projects funded by Royal Academy of Engineering, UK in Collaboration with Advanced Technology Institute, University of Surrey, United Kingdom Under Newton Bhabha Fund focused on Environmental Sustainability

The university has been driving meaningful change through four international research projects related to SDGs on Green Hydrogen, Green Refrigeration, Sustainable Smart Cities and reducing water consumption in collaboration with Advanced Technology Institute, University of Surrey, UK funded around INR 2.5 Crores by Royal Academy of Engineering, UK.

### List of Projects Funded by Royal Academy of Engineering, UK

Name of the International collaboration and Research Project	Name of the Principal Investigator / Co Investigator	Name of the Funding agency	International Collaboration	Funds provided (INR in Lakhs)	Duration of the project (Months)
Advancing Green Hydrogen Production through Electrolysis: Optimization and Renewable Energy Integration	Dr. Vishal Kumar Sandhwar	Royal Academy of Engineering, UK	Advanced Technology Institute, University of Surrey, UK	65	14
AI, IoT and Digital Technologies for Future Sustainable Smart Cities	Dr. Arvind Yadav	Royal Academy of Engineering, UK	Advanced Technology Institute, University of Surrey, UK	83	24
Green Refrigeration System using Solar Energy	Dr.Paidipati Gopala Krishna Murthy	Royal Academy of Engineering, UK	Advanced Technology Institute, University of Surrey, UK	41	28
To Reduce Water Consumption and Optimize Efficiency of Thermal Power Plants by Using Air Cooled Condensers	Dr.Paidipati Gopala Krishna Murthy	Royal Academy of Engineering, UK	Advanced Technology Institute, University of Surrey, UK	47	26

## **Research Project on Advancing Green Hydrogen Production through Electrolysis: Optimization and Renewable Energy Integration funded by Royal Academy of Engineering, UK under Newton Bhabha Fund**

**Title:** “Advancing Green Hydrogen Production through Electrolysis: Optimization and Renewable Energy Integration”.

**Grant Body:** Royal Academy of Engineering, London, UK, under Transforming Systems through Partnership 22/23

**Amount of Grant:** GBP 65,000

**Project Period:** November 2023 to January 2025

**Collaborators:**

- Parul University (Lead University)
- Linde Engineering India Pvt Ltd (Indian Industry Partner)
- University of Surrey, London, UK (UK Academic Partner)

**Team Lead:** Dr. Vishalkumar Sandhwar,

**Members of PU Team:**

- Dr. Vishal Kumar Sandhwar, Assistant Professor Parul Institute of Technology
- Dr. Gopala Krishna Murthy Paidipati, Professor, Parul Institute of Management and Research
- Dr. Unnati Joshi, Professor, Parul Institute of Engineering & Technology
- Dr. Shivendu Saxena Assistant Professor Parul Institute of Technology
- Dr. Mahendra Singh Rathore, Associate Professor, Parul Institute of Technology
- Dr. Anand Joshi, Professor, Parul Institute of Technology
- Dr. Rital Gajjar, Associate Professor, Parul Institute of Technology
- Dr. Sumit Daslala, Assistant Professor, Parul Institute of Engineering & Technology
- Prof. Manish Pandya Registrar, Parul Institute of Engineering & Technology
- Dr. Swapnil Parikh, Professor, Parul Institute of Technology
- Ms. Hetal Bhaidasana, Assistant Professor, Parul Institute of Engineering & Technology
- Dr. Kartik Pandya, Associate Professor, Parul Institute of Engineering & Technology

**Members from Linde Engineering India Pvt Ltd:**

- Mr. Nilesh Mangukia, Director (Business Development & Sales)
- Mr. Roshan Mehta, Head of Sales
- Mr. Bhavin Trivedi, Deputy Manager Sales
- Mr. Nikhil Tonapi, Head of Process & Environmental Safety

### **Members from University of Surrey**

Prof. Dr. Satheesh Krishnamurthy,

### **Research Focus Area:**

- The RAE (Royal Academy of Engineering)-funded Green Hydrogen project primarily focuses on advancing sustainable hydrogen production via electrolysis. The key thematic areas include: Wastewater Treatment, Material Development, Integration and Optimization of Solar Energy, Green Hydrogen Production etc.

### **Research Study:**

The study involves collaborative research between academic and industry partners. Major components include:

- Wastewater treatment and its utilization as a feedstock in electrolyser
- Installation and optimization solar energy to power electrolysis
- Optimization of process parameters of Proton Exchange Membrane (PEM) electrolyzer
- Development of efficient, cost-effective electrocatalysts for hydrogen production
- Enhancement of system efficiency and scalability
- Process optimization through software
- Pilot-scale demonstration

### **Objectives of The Project:**

- Exploring the Use of Artificial intelligence, IoT and Block Chain technologies for planning, design and development of smart cities through by
- Exploring existing techniques and its utilization for development of smart city,
- Designing the smart water meter systems for better water management,
- Developing smart sewage management and distribution System,
- Designing smart traffic surveillance system for reducing traffic congestion and roadside accident mitigation,
- Preparing effective urban air quality management plan,
- Designing unified response system for health, fire and other uncalled for emergencies, and
- Developing a general controlled oriented guiding principle and methodology in the design of sustainable energy future for smart cities.

### **Outcomes:**

- Achieved efficient removal of municipal wastewater
- Identification of key performance parameters for improving PEM electrolyzer efficiency

- Achieved 94% of purity of green hydrogen
- Prototype developed for a lab-scale integrated green hydrogen unit
- Published research papers and book chapter in peer-reviewed journals
- Knowledge exchange through workshops and visits
- Promotion of sustainable energy education and practical exposure for students

#### **Students Involvement in the Project:**

- During year 2023-24, 6 students of B.Tech and 3 students of M.Tech, and 1 Ph.D scholar are taking active part in the project. Students are mentored by not only faculty members of PU but also by professionals of Linde Engineering India, Pvt Ltd, and the University of Surrey, UK. Their performance is reviewed by experts periodically.

#### **Workshops and Dissemination of Knowledge**

- Under this project, so far, we have organized 5 workshops and in total 459 engineers participated out of which 82 faculty members, 3 industry professionals, 374 students of Engineering of various Universities like Parul University, M S University, Gujarat Technological University etc., have participated. Feedback was collected from all participants. Overall feedback from all participants was good and many have appreciated themes as well as modalities.

#### **List of equipments procured under the project**

- PEM Electrolyser test station (300 watt capacity)
- Solar Power Generating System (4kw Off Grid Power Plant)
- Online Hydrogen Gas Analyzer
- Muffle Furnace
- COD Digester
- Magnetic Stirrer with hot plate
- pH meter
- TDS meter
- Computer workstation

**Publications:**

<b>Title of Research Article / Book Chapter</b>	<b>Title of Journal / Book</b>	<b>Publisher</b>	<b>Authors</b>	<b>Year of publication</b>
Future trends and emerging technologies in water quality management	Computational automation for water security Enhancing water quality management	Elsevier	Vishal Kumar Sandhwar, Shivendu Saxena , Diksha Saxena, Alok Tiwari	2024
Electrochemical Treatment Technologies for Textile Wastewater Remediation: Innovations in Oxidation Processes and Electrode Materials	Emerging Trends in Chemical and Biochemical Engineering	Iterative International Publishers	Vishal Kumar Sandhwar, Shivendu Saxena, Siddharth Pandey, Manthan Chauhan	2024
Ultrasound-Mediated Recovery of Nutrients from Wastewater	Ultrasound in Circular Economy: Transforming Waste into Resources	Springer	Vishal Kumar Sandhwar, Diksha Saxena, Shivendu Saxena, Alok Tiwari	2024
Future Directions and Emerging Trends in Ultrasound Applications for Circular Economy	Ultrasound in Circular Economy: Transforming Waste into Resources	Springer	Alok Tiwari, Shivendu Saxena, Vishal Kumar Sandhwar, Diksha Saxena,	2024
Tailoring the Structural and Dielectric Properties by the Substitution of Zn and Mg at Ti in Nitinol-Based Nanocomposites	Journal of Electronic Materials	Springer	Mahendra Singh Rathore, Sumit Das Lala, Unnati Joshi, Anand Joshi, Sanketsinh Thakor, Jaivik Pathak, Vishal Sandhwar & Chandan R. Vaja	2025
Future trends and emerging technologies in water quality management	Computational Automation for Water Security	Elsevier	Vishal Kumar Sandhwar, Shivendu Saxena, Diksha Saxena, Alok Tiwari, Swapnil M. Parikh	2025



## Full Time Equivalent Staff in Research Centre

Sr. No.	Staff ID	Name of Staff	Designation
1	15559	Dr. Mange Ram Yadav	Director
2	13948	Prof. M. H. Fulekar	Joint Director
3	11656	Dr. Vijay Upadhye	Deputy Director
4	18551	Dr. Tarun Kumar Upadhyay	Associate Professor
5	20616	Dr. Soyebkhan Pathan	Assistant Professor
6	19640	Dr. Mukul Jain	Assistant Professor
7	22470	Dr. Mitesh Patel	Assistant Professor
8	25198	Dr. Reeshu Gupta	Assistant Professor
9	30360	Dr. Kirtan Dave	Assistant Professor
10	34113	Dr. Malvi Surti	Assistant Professor
11	35996	Dr. Megha Barot	Assistant Professor
12	37452	Dr. Pradeep Kumar Bramhin	Professor
13	36416	Dr. Bibhas Kumar Bhunia	Assistant Professor
14	24294	Shaista K.	Junior Scientist cum Assistant Professor
15	21675	Sunil Kumar	Junior Research Fellow cum Assistant Professor
16	28508	Rupal Dhariwal	Junior Research Fellow cum Assistant Professor
17	31296	Aviral Kaushik	Junior Research Fellow cum Assistant Professor
18	31519	Ankit Paul	Junior Research Fellow cum Assistant Professor
19	31534	Adil Ali	Junior Research Fellow cum Assistant Professor
20	31715	Krupanshi Bharadava	Junior Research Fellow cum Assistant Professor
21	31714	Naureenbanu Makarani	Junior Research Fellow cum Assistant Professor
22	31735	Muskan Memon	Junior Research Fellow cum Assistant Professor



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## Environmental Sciences R & D Laboratory





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INDIA'S YOUNGEST  
**NAAC A++**  
ACCREDITED UNIVERSITY



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79V9+24, GIDC, Gujarat 391760, India  
Lat 22.292828°  
Long 73.366844°  
03/04/24 01:03 PM GMT +05:30



GIDC, Gujarat, India  
79V9+24, GIDC, Gujarat 391760, India  
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Long 73.366963°  
03/04/24 01:03 PM GMT +05:30



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# PARUL UNIVERSITY

## Sustainable Development Goals

### Scopus Publication Details

#### Summary

Sr. No.	Name of SDG	No. of Publications
1	SDG 1: No Poverty	12
2	SDG 2: Zero Hunger	144
3	SDG 3: Good Health and Well-being	1024
4	SDG 4: Quality Education	52
5	SDG 5: Gender Equality	13
6	SDG 6: Clean Water and Sanitation	180
7	SDG 7: Affordable and Clean Energy	364
8	SDG 8: Decent Work and Economic Growth	143
9	SDG 9: Industry, Innovation and Infrastructure	439
10	SDG 10: Reduced Inequalities	37
11	SDG 11: Sustainable Cities and Communities	133
12	SDG 12: Responsible Consumption and Production	227
13	SDG 13: Climate Action	123
14	SDG 14: Life Below Water	33
15	SDG 15: Life on Land	90
16	SDG 16: Peace, Justice and Strong Institutions	33
17	SDG 17: Partnerships for the Goals	94



# SDG 1: No Poverty

Book Chapter

[Generative AI Enhancing Financial Decision- Making Processes](#)

[Rani, J.](#), [Guru, R.](#), [Sakthivel, S.](#), [Molla, W.T.](#)

***Generative AI Insights for Financial Decision Making*, 2025**

Article

[Energizing solar still efficiency with eco-friendly coconut shell biochar enhanced organic phase change material](#)

[Rajamony, R.K.](#), [Suraparaju, S.K.](#), [Kalidasan, B.](#), ...[Samyano, M.A.](#), [Saidur, R.](#)

***Separation and Purification Technology*, 2025**

Article • *Open access*

[Fostering Entrepreneurship and MSME Development through Targeted Interventions: Lessons from India's Experience with MUDRA, Stand-up India, and Startup India](#)

[Satsangi, N.S.](#), [Raghuwanshi, S.](#), [Hasan, A.](#), ...[Kumar, P.](#), [Singhal, A.](#)

***International Journal of Economics and Financial Issues*, 2025**

Book Chapter

[The Prospects of Traditional Branch Banking in the Era of Digital Dominance](#)

[Ditta, H.](#), [Thakkar, A.](#), [Asmelash, A.](#)

***Strategic Workforce Reskilling in Service Marketing*, 2025**

Review • *Open access*

[Millet: Food of the Himalayas for combating malnutrition in the face of nutritional insecurity](#)

[Prasad, M.E.](#), [Thapa, S.](#), [Upadhye, V.J.](#), [Singh, P.](#)

***Environment Conservation Journal*, 2024**

Review • *Open access*

[Climate Change Impacts on Legume Physiology and Ecosystem Dynamics: A Multifaceted Perspective](#)

[Dave, K.P.](#), [Kumar, A.](#), [Dave, N.](#), ...[Yadav, A.](#), [Kaushik, P.](#)

***Sustainability Switzerland*, 2024**

Article

[Financial Inclusion Index and its Determinants among Asian Countries](#)

[Bhall, R.](#), [Berwal, K.](#), [Bisla, M.](#), [Kumar, J.](#)

***Indian Journal of Economics and Development*, 2024**

Article

[EMERGING NATIONS' LEARNING SYSTEMS AND THE COVID-19 PANDEMIC: AN ANALYSIS](#)

[Prabhakar, A.](#), [Kapse, V.M.](#), [Patel, G.M.](#), ...[Singh, A.](#), [Kumar, A.A.](#)

***Georgian Medical News*, 2023**

Book Chapter

[Bio and bio-based hybrid techniques for municipal wastewater treatment and resource recovery](#)

[Sandhwar, V.K.](#), [Saxena, S.](#), [Joshi, U.A.](#), [Yadav, A.R.](#)

***Resource Recovery in Municipal Waste Waters*, 2023**

Book Chapter

[Environment and Sustainable Development](#)

[Rai, A.](#), [Fulekar, M.H.](#)

***Climate Change and Sustainable Development*, 2023**

Article

[Prevalence and associated risk factors of Entamoeba histolytica infection among school children from three primary schools in Arsi Town, West Zone, Ethiopia](#)

[Roro, G.B.](#), [Eriso, F.](#), [Al-Hazimi, A.M.](#), ...[Upadhye, V.J.](#), [Hajare, S.T.](#)

***Journal of Parasitic Diseases*, 2022**

Book Chapter

[Contactless attendance system: A health-care approach to prevent spreading of Covid-19](#)

[Yadav, A.R.](#), [Kumar, J.](#), [Anumeha,](#), [Agrawal, A.K.](#), [Kumar, R.](#)

***Blockchain for 5g Healthcare Applications Security and Privacy Solutions*, 2022**



# SDG 2: Zero Hunger

Review • *Open access*

[Biogenic nanoparticles for managing salinity stress-related crop and environmental risks: realistic applications and challenges](#)

[Singh, A., Agrawal, S., Rajput, V.D., ...Papadakis, M.N., Ghazaryan, K.A.](#)

*Discover Sustainability*, 2025

Article • *Open access*

[Actinobacteria mediated synthesis of silver nanoparticles and their weedicial potential against Parthenium hysterophorous Linnaeus](#)

[Izhar, S.K., Bano, N., Rizvi, S.F., ...Upadhye, V.J., Afaq, U.](#)

*Scientific Reports*, 2025

Review

[A critical review on epigenetics and epigenomics in plant development and stress resilience](#)

[Ekambaram, G., Viswanathan, D., Prakash, P., ...Govindasamy, R., Muthu, T.](#)

*Revista Brasileira De Botanica*, 2025

Review • *Open access*

[Herbicide use and weed management strategies in hemp cultivation](#)

[Kaur, N., Kumar, A.T.R., Malik, T., ...Tariq, M., Mohan, A.](#)

*Journal of Cannabis Research*, 2025

Review

[Microalgae-based nutritional supplements: Sustainable applications for high-nutritional-value food production](#)

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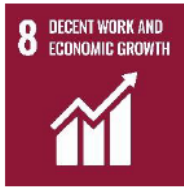
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