



LAKSHMI NARAIN COLLEGE OF TECHNOLOGY, BHOPAL

PATENT DETAILS

DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Title of the Patent	FACULTY NAME	Filing Date	Publication / Grant Date	Application No.	Status	SDG Mapping
1	Solar -Driven Atmospheric Water Harvesting (SDAWH) System For Providing Enhanced Water Productivity in ARID CLIMATE	Dr Pravesh Kumar Kushwaha et al	24/12/2024	21/05/2026	202421102795	Granted	SDG 6 Clean Water and Sanitation, SDG 7 Affordable and Clean Energy, SDG 9 Industry, Innovation and Infrastructure, SDG 11 Sustainable Cities and Communities, SDG 12 Responsible Consumption and Production, SDG 13 Climate Action
2	Hydrogen assisted dual fuel injection system	Dr. shankar Kumar, DR. RAJESH KUMAR PANDEY, Dr. Jitendra Raghuwanshi, Dr. Neeraj Dubey, Dr. Madan Mohan Sahu, Prof Rajiv Singh Chouhan, Dr. R.G. Patil	7/2/2026	28/08/2026	202621081782 A	Published	SDG 7 Affordable and Clean Energy, SDG 9 Industry, Innovation and Infrastructure, SDG 12 Responsible Consumption and Production, SDG 13 Climate Action

3	Solar powered Night Air water harvester and hydrogent generator system	Dr. Neeraj Dubey	20/02/2025		202521014691		
4	Solar powered Night Air water harvester and hydrogent generator system	DR. RAJESH KUMAR	20/02/2025		202521014691		



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PATENT DETAILS - 2025

DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Title of the Patent	FACULTY NAME	Filing Date	Publication / Grant Date	Application No.	Status	SDG Mapping
1	INTERNAL JET PISTON FOR A DIESEL ENGINE	DR. ARUN WAMANKAR, DR. VIKAS PARE, DR. RAJEEV SRIVASTAVA, Prof RAJEEV SINGH CHOUHAN	29/04/2025	23/05/2025	202521041258	Published	SDG 7 Affordable and Clean Energy, SDG 9 Industry, Innovation and Infrastructure, SDG 12 Responsible Consumption and Production SDG 13 Climate Action
2	AI Integrated Mechanical gripper system for human robot collaboration in Industry 5.0 environment	Dr. Shashi Ranjan Mohan	7/21/2025	8/1/2025	202521069422	Published	SDG 3 Good Health and Well Being SDG 4 Quality Education SDG 9 Industry, Innovation and Infrastructure, SDG 8 Decent Work and Economic Growth SDG 12 Responsible Consumption and Production
3	Advanced fuel quantifier system and method for real time monitoring of fuel quantity,quality and pressure	DR. RAJESH KUMAR PANDEY, Dr. Shankar Kumar , Dr. Neeraj Dubey, Dr. Madan Mohan Sahu, Prof. Rajiv Singh Chouhan, Dr. R.G. Patil	31/01/2025	10/21/2025	202521008314	Hearing (Under Process)	SDG 3 Good Health and Well Being SDG 7 Affordable and Clean Energy, SDG 9 Industry, Innovation and Infrastructure, SDG 12 Responsible Consumption and Production SDG 13 Climate Action

PATENT DETAILS - 2025

DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Title of the Patent	FACULTY NAME	Filing Date	Publication / Grant Date	Application No.	Status	SDG Mapping
4	Universal twisting timer knob with adaptive control and energy harvesting features	Dr. Shankar Kumar, Dr. Neeraj Dubey, DR. RAJESH KUMAR PANDEY, ARUN WAMANKAR, DR. VIPIN SRIVASTAVA, Dr Arvind kumar	20/02/2025	3/7/2025	202521014691	Under Examination	SDG 7 Affordable and Clean Energy, SDG 9 Industry, Innovation and Infrastructure, SDG 12 Responsible Consumption and Production SDG 13 Climate Action
5	Solar powered Night Air water harvester and hydrogent generator system	Dr. Shankar Kumar , Dr. Neeraj Dubey, DR. RAJESH KUMAR PANDEY	20/02/2025	3/7/2025	202521014691	Under Examination	SDG 6 Clean Water and Sanitation SDG 7 Affordable and Clean Energy, SDG 9 Industry, Innovation and Infrastructure, SDG 12 Responsible Consumption and Production SDG 13 Climate Action



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PATENT DETAILS - 2024

DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Title of the Patent	FACULTY NAME	Filing Date	Publication / Grant Date	Application No.	Status	Mapping of SDG
1	IOT BASED SOLAR POWER AGRICULTURE ROBOT	Dr. Shankar Kumar DR. VIKAS PARE	11/25/2024	15/1/24	400701-001	Registered	SDG 9 Industry, Innovation and Infrastructure, SDG 7 Affordable and Clean Energy SDG 12 Responsible Consumption and Production, SDG 13 Climate Action

2	IOT BASED DEVICE FOR ENVIORNMENTAL MONITORING	Dr. Shankar Kumar DR. VIKAS PARE	4/1/2024	7/3/2024	403824001	Registered	Being Industry, Innovation and Infrastructure, SDG 11 Sustainable Cities and Communities SDG 12 Responsible Consumption and Production, SDG 13 Climate Action SDG 15 Life
3	AIRFOIL FLAPS FOR HEADGEAR	DR. VIKAS PARE	4/6/2019	2/29/2024	201921013503	Granted	SDG 3 Good Health and Well Being SDG 7 Affordable and Clean Energy SDG 9 Industry, Innovation and Infrastructure, SDG 11 Sustainable Cities and Communities SDG 12 Responsible Consumption and Production,

4	Composites broom stick comprising of cocos nucifera leaf reinforced polypropylene plastic	Dr. Neeraj Dubey, Dr. Shankar Kumar , Dr. Madan Mohan Sahu, Dr. R.G. Patil, Prof Rajiv Singh Chouhan, DR. Neetu Singh	1/7/2024	26/07/2024	202421050320	Hearing (Under Process)	SDG 8 Decent Work and Economic Growth SDG 9 Industry, Innovation and Infrastructure, SDG 12 Responsible Consumption and Production, SDG 13 Climate Action SDG 15 Life on Land
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PATENT DETAILS - 2023

DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Title of the Patent	FACULTY NAME	Filing Date	Publication / Grant Date	Application No.	Status	Mapping of SDG
1	Decorative Sheets Made Up of Used Indian Sarees Reinforced with Transparent Resin	Dr. Shankar kumar, Dr. Neeraj Dubey, Dr. Shailendra Dwivedi	8/23/2023	13/10/2023	20232105662 1	Under Examination	SDG 9 Industry, Innovation and Infrastructure, SDG 11 Sustainable Cities and Communities SDG 12 Responsible Consumption and Production SDG 13



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PATENT DETAILS - 2022

DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Title of the Patent	FACULTY NAME	Filing Date	Publication / Grant Date	Applicati on No.	Status	Mapping of SDG
1	SPIRAL NATURAL COOLING WATER BOTTLE	Jitendra raghuwanshi	20/01/2020	29/12/2022	326170-001	Registered	SDG 6 Clean Water and Sanitation SDG 7 Affordable and Clean Energy SDG 9 Industry, Innovation and Infrastructure SDG 12 Responsible Consumption and Production SDG 13 Climate Action