

## **PATENT GRANTED**

**(Applicant Name: Delhi Technological University)**

Sl. No.	Patent Title	Application Number	Status	Date of Grant	Name of the Inventor(s)
1	Motor Controller for Light Mobility Vehicles in India	202211051643	Granted	09/07/2024	Mini Sreejeth, S. Indu, Piyush Gupta, R K Upadhyay, Madhusudhan Singh
2	A Converter and Method Thereof for Topology Selection of Z-Source DC-DC Single Input Dual Output (SIDO)	202311053700	Granted	08/10/2024	Ashutosh, Dheeraj Joshi
3	A High Gain Fault Tolerant Multiport DC-DC Converter	202411024561	Granted	19/11/2024	Mayank Kumar, Madhusudan Singh, Abhishek Kumar Gupta

## **PATENT PUBLISHED / FILED**

**(Applicant Name: Delhi Technological University)**

Sl. No.	Patent Title	Application Number	Year	Name of the Inventor(s)
1	Automated Status Monitoring and Reconfiguring Control System for Unmanned Helicopters	202011055374	2020	Rupam Singh, Bharat Bhushan
2	A Bidirectional Multiport DC-DC Converter	202411100967	2024	Mayank Kumar, Madhusudan Singh, Rushiv Bansal, Rishabh Bansal
3	Battery Management System with Integrated Fault Detection, Cell Balancing and Power Regulation	202511028045	2025	Madhusudan Singh, Pragati Kumar, Uma Nangia, Mini Sreejeth, M. Rizwan, Ashish Rajeshwar Kulkarni, Mayank Kumar, Monika Verma, Radhakrishna Upadhyay, Ashok Kumar Poddar

**PATENT PUBLISHED / FILED**

**(Applicant Name: Other)**

Sl. No.	Patent Title	Application Number	Year	Status	Name of the Inventor(s)
1	System For Enhancing Driving Range of a Light Electric Vehicle Based on Synchronous Reluctance Motor	202111030491	20/03/2024	Granted	Bhim Singh, <b>Saurabh Mishra</b> , Anshul Varshney
2	Hotspot Mitigation Circuit for Photovoltaic Module	201821048295	2018	Published	Ravindra Birajdar, S.Ghosh, <b>Vinod Kumar Yadav</b> , Vivekananda Mukherjee
3	PLC and SCADA-based System for Automating Industrial Operations	202111040407	2021	Published	<b>Basant Tomar, Narendra Kumar</b>
4	Method and System for Developing an Automated Assembly Line in a Chemical Process Plant	202111035331	2021	Published	<b>Basant Tomar, Narendra Kumar</b>
5	Reconfigurable Photovoltaic Module with Power Conditioning Unit	202311066969	2023	Published	<b>Sudarshan Kumar Babu Valluru, Vanjari Venkata Ramana, Tamer I.A. Abudabbousa</b>

### **Transfer of Technology (ToT)**

Sl. No.	Product Name	Technology Licensing Agreement		Date of ToT	Name of the Inventor(s)
		First Party	Second Party		
1	3-Phase, 48V, Brushless DC Motor Controller for e-Rickshaw	Delhi Technological University, Delhi	Lithion Power Pvt Ltd	27/09/2022	Mini Sreejeth S. Indu Piyush Gupta R K Upadhyay Madhusudhan Singh

### **Memorandum of Understanding (MoUs)**

Year	Name of Organization	Purpose of MoU /Collaboration (Academic/ Research/Industry)
2018	M/s HB Software Solutions	Research and Capacity Building
2019	M/s Onnyx	Research
2022	M/s Lithion Power Private Limited	Student Exchange, Joint Development of Technology
2022	Paytm Foundation	Infrastructure Development