

Sl. No.	Patent Application No.	Status of Patent (Filed/Published / Granted)	Inventor(s) Name	Title of the Invention	Applicants Name	Patent Filed Date (DD/MM/YYYY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)	Department	Center Name
1	935/KOL/2013	Granted	1. Biswajit Mallick 2. Suvendu Kumar Sahoo 3. Dr. Sanjeeb Kumar Rout 4. Dr. Rabi Naryan Mukherjee	A NEW LIQUID CELL FOR MEV-ELECTRON IRRADIATION AT LOW TEMPERATURE	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	08-08-2013	30-06-2023	436472	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Physics	BIT Mesra Campus
2	75/KOL/2012	Granted	1.SWASTIKA GANGULY, 2.RADHE SHYAM BAHARE	THIAZOLIDINE-2,4-DIONE DERIVATIVES, THEIR SYNTHESIS AND USES	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	26.08.2016	07.06.2023	434035	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Pharmacy	BIT Mesra Campus
3	202131060167	Granted	Venkatesan R	3-(2-HYDROXYPHENYL)-5-PHENYL-4, 5-DIHYDRO-1H-PYRAZOLE DERIVATIVES, AND METHOD OF PREPARING	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	23.12.2021	29.09.2023	455777	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Pharmacy	BIT Mesra Campus
4	202331044084	Published	1. Dr. Avinash 2. Dr. Nisha Gupta	AN ELECTROMAGNETIC (EM) WAVE ABSORBER APPARATUS AND COMPOSITION THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	30-06-2023	17-11-2023	202331044	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Electronics and Communication	BIT Mesra Campus

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5	202331047265	Published	Dr. Mainak Mukhopadhyay	A ONE-TIME PAD-BASED COMMUNICATION SYSTEM AND METHOD THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	13-07-2023	06-10-2023	202331047	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Electronics and Communication Engineering	BIT Deogarh Campus
6	202331044085	Published	1. Garima Kumari 2. Dr. Vinod Kumar Nigam 3. DR. Dev Mani Pandey	METHOD FOR ENRICHMENT OF PHYTOCONSTITUENTS IN PLANTS	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	30-06-2023	08-09-2023	202331044	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Dept. of Bioengineering	BIT Mesra Campus
7	202331049046	Published	1. Joykrishna Maity 2. Ratul Hore 3. Anirban Pradhan 4. Tapas Halder 5. Souvik Mukherjee	SAUROPUNOL COMPOUNDS AND METHOD OF PREPARING THE SAME	BIRLA INSTITUTE OF TECHNOLOGY, MESRA & RAMAKRISHNA MISSION RESIDENTIAL COLLEGE	20-07-2023	13-10-2023	202331049	BIRLA INSTITUTE OF TECHNOLOGY, MESRA & RAMAKRISHNA MISSION RESIDENTIAL COLLEGE	Department of Chemistry	BIT Mesra Campus and RKMRC
8	202331051036	Published	1. Nimmy Kumari 2. Parag Roy 3. Noopur Pandey 4. Animesh Ghosh	NOVEL PHARMACEUTICAL ACETAZOLAMIDE BASED COMPOUNDS AND METHOD OF PREPARATION THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	28-07-2023	13-10-2023	202331051	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Pharmaceutical Sciences	BIT Mesra Campus

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9	202331056554	Filed	1. Anupam Roy 2. Shubhajit Sarkhel	A MULTIPURPOSE INTEGRATED APPARATUS FOR TREATMENT OF FOOD MATRICES AND INGREDIENTS THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	23-08-2023	13-10-2023	202331056	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Chemical Engineering	BIT Mesra Campus
10	202331057280	Published	1. Tuhin Mukherjee 2. Dr. Ashok Kumar Pattnaik 3. Dr. Sitanshu Sekhar Sahu	A PHOTO BIOMODULATION DEVICE FOR ATTENUATING OBESITY, AND METHOD THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	25-08-2023	13-10-2023	202331057	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Pharmaceutical Sciences & Technology 3rd Inventor Department of Electronics & Communication Engineering	
11	202331057064	Published	1. Dr. Sitanshu Sekhar Sahu 2. Dr. Sweta Kumari 3. Dr. Subrat Kumar Swain 4. Dr. Sudhansu Kumar Mishra 5. Dr. Mayank Singh	A PIEZOELECTRIC BASED ENERGY HARVESTING SYSTEM AND METHOD THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	25-08-2023	20-10-2023	202331057	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	1st and 2nd Department of ECE 3rd to 5th Department of EEE	

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12	202331057916	Published	1. Pooja C Asani 2. Mamta Kumari 3. Dr. Raju Poddar	A PORTABLE MULTISPECTRAL IMAGING SYSTEM FOR DETECTION OF DISEASE IN PLANTS AND METHOD THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	29-08-2023	13-10-2023	202331057	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Bioengineering	
13	202331060280	Published	1. Prity Soni 2. Rohit Kumar 3. Sudhansu Kumar Mishra 4. Subrat Kumar Swain 5. Sitanshu Sekhar Sahu	AN INTELLIGENT IRRIGATION SYSTEM AND METHOD THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	07-09-2023	20-10-2023	202331060	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	1st to 4th Department of Electrical and Electronics Engineering 5th Department of Electronics and Communication Engineering	
14	202331063004	Published	1. Dr. Syed Mohammad Abdullah 2. Dr. Papiya Mitra Mazumder	A WHEEL APPARATUS FOR ASSESSING LUNG FUNCTIONALITY OF RODENTS	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	19-09-2023	20-10-2023	202331063	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Pharmaceutical Sciences	

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15	202331063699	Published	1. Dr. Kunal Mukhopadhyay 2. Uzma Afreen 3. Dr. Manish Kumar	AN ANTI-LEAF RUST NANO ENCAPSULATED SPRAY COMPOSITION FOR PROTECTION OF WHEAT PLANTS AND METHOD OF PREPARATION THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	22-09-2023	13-10-2023	202331063	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Bioengineering and Biotechnology	
16	202331066305	Published	1. Dr. Biswatrish Sarkar 2. Rajdeep Saha 3. Ankit Majie	BIOACTIVE EXTRACT REDUCED IN SITU NANOPARTICLE-BASED HYDROGEL FORMULATION AND PREPARATION METHOD THEREOF, FOR WOUND CARE	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	03-10-2023	03-11-2023	202331066	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Pharmaceutical Sciences and Technology	
17	202331066548	Published	1. Dr. Vijay Nath 2. Divya Sharma 3. T. Snehitha Reddy 4. Nikhat Anjum 5. Dr. Deepak Prasad 6. Dr. Abhishek Pandey 7. Dr. Vimal Kumar Singh yadav	A TEMPERATURE SENSOR AND DEVICE THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	04-10-2023	27-10-2023	202331066	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Electronics & Communications Engineering	

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18	202331066870	Published	1. Ankit Kumar 2. Abhishek Thakur 3. Sudhansu Kumar Mishra 4. Subrat Kumar Swain 5. Sitanshu Sekhar Sahu	AN AUTONOMOUS VEHICLE NAVIGATION SYSTEM AND METHOD THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	05-10-2023	27-10-2023	202331066	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Electronics and Communication Engineering	
19	202331071055	Published	1. Dr. Biswatrish Sarkar 2. Rajdeep Saha 3. Garima Agrawal 4. Dr. Prashanta Kumar Deb	POLYPHENOLIC PHYTOCHEMICAL-REDUCED NANOPARTICLES AND METHOD OF SYNTHESIS THEREOF, FOR IMPROVING BIOACTIVITY	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	18-10-2023	10-11-2023	202331071	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Pharmaceutical Sciences and Technology	
20	202331071051	Published	1. Snigdha Singh 2. Trishna Bal 3. Aditya Dev Rajora 4. Mahendra Pratap Swain 5. Shreya Sharma 6. Itishree Jogamaya Das 7. Fahad Uddin 8. Sameer Ali Dafadar	A BIOPOLYMERS HYDROGEL-BASED DOSAGE FORMULATION AND METHOD OF PREPARATION THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	18-10-2023	10-11-2023	202331071	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Pharmaceutical Sciences & Technology	

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21	202331073541	Published	1. Ranbir Kumar 2. Dr. Deep Shikha 3. Dr. Sanjay Kumar	HYDROXYAPATITE PELLETS AND METHOD OF PREPARATION THEREOF, AND THE HYDROXYAPATITE PELLETS-BASED NANOC	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	28-10-2023	10-11-2023	202331073	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	1st and 2nd Department of Chemistry 3rd Department of Physics	
22	202331075427	Published	1. Gajendra Kant Mishra 2. Anisha Kiran	AN IOT BASED MULTIPURPOSE WEARABLE SPECTACLE	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	04-11-2023	24-11-2023	202331075	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Electronics and Communication Engineering	
23	202331075835	Published	1. Rohit Agrawal 2. Dr. Arkadeb Mukhopadhyay 3. Dr. Prasanta Sahoo 4. Dr. Tapan Kumar Barman	A METAL COATING PROCESS FOR TRIBOLOGICAL APPLICATIONS AND A COATED SURFACE OBTAINED THEREFROM	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	06-11-2023	24-11-2023	202331075	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Mechanical Engineering	
24	202331077668	Published	1. Dr. Deep Shekhar Acharya 2. Dr. Deep Shikha 3. Dr. Subrat Kumar Swain	A NON-INTEGER ORDER CONTROLLING SYSTEM FOR SECOND ORDER SYSTEM AND METHOD THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	15-11-2023	01-12-2023	202331077	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Electrical and Electronics Engineering	

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25	202331078671	Published	Dr. Mainak Mukhopadhyay	AN ERROR-FREE ADAPTIVE EQUALIZER SYSTEM AND METHOD OF OPERATION THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	20-11-2023	24-11-2023	#####	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Electronics and Communication Engineering	
26	202331078733	Published	1. Dr. Biswatrish Sarkar 2. Rajdeep Saha 3. Shlok Kumar 4. Ankit Majie	A NANOFIBRE MAT FOR MANAGING WOUND HEALING, FORMULATION AND METHOD OF PREPARATION THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	20-11-2023	24-11-2023	#####	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Pharmaceutical Sciences and Technology	
27	202331078668	Published	1. Dr. Lakhbir Singh Brar 2. Dr. Dipti Prasad Mishra 3. Rishikesh Sharma 4. Dr. Om Prakash 5. Dr. Nirmal Kumar	A FIN AND TUBE TYPE HEAT EXCHANGER	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	20-11-2023	01-12-2023	#####	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Mechanical Engineering	
28	202331079025	Published	1. Abhinandan Kumar 2. Arkadeb Mukhopadhyay	A SURFACE COATING AND METHOD OF PREPARATION THEREOF USING COMPUTATIONAL TOOLS	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	21-11-2023	24-11-2023	202331079	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Mechanical Engineering	

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29	202331080927	Published	1. Dr. Om Prakash 2. Vijay Kumar Pandey 3. Dr. Lakhbir Singh Brar 4. Dr. Anil Kumar	A HEAT STORAGE AND RELEASE SYSTEM FOR ENERGY MANAGEMENT IN SOLAR POWER PLANT	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	24-11-2023	01-12-2023	202331080	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Mechanical Engineering	
30	202331081061	Published	1. Rahul Kumar 2. Dr. Yogender Aggarwal 3. Dr. Vinod Kumar Nigam 4. Dr. Rakesh Kumar Sinha	AN APPARATUS AND NONINVASIVE METHOD OF DETECTION OF ATHEROSCLEROSIS IN AN EARLY STAGE	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	29-11-2023	08-12-2023	202331081061A	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Bioengineering and Biotechnology	
31	202331081605	Published	1. Usha Lakra 2. Dr. Shubha Rani Sharma 3. Dr. Vinod kumar Nigam	A METHOD FOR EFFICIENT PRODUCTION OF MICROBIAL NATURAL PRODUCT FOR WOUND CARE	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	30-11-2023	15-12-2023	202331081	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Bioengineering and Biotechnology	
32	202331081603	Published	1. Dr. Jay Prakash Pandey 2. Dr. Rajeev Kumar 3. Smita Singh 4. Dr. Gautam Sen	A MODIFIED PLANT-BASED POLYSACCHARIDE BINDER, METHOD OF ITS PREPARATION AND USE THEREOF	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	30-11-2023	15-12-2023	202331081	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	1st 3rd and 4th Department of Chemistry 2nd Department of Mechanical Engineering	

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33	202331083441	Published	1. BRAR, Dr. Lakhbir Singh 2. PRAKASH, Dr. Om 3. SHARMA, Rishikesh	A FIN AND TUBE TYPE HEAT EXCHANGER	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	07-12-2023	22-12-2023	202331083	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	Department of Mechanical Engineering	
34	202331013273	Published	1. Sudip Kumar Sahana 2. Sankar Mukherjee 3. Milan Kumar Dholey	IOT BASED AUTOMATED REAL TIME MONITORING SYSTEM FOR PATIENTS AND METHOD THEREOF	Birla Institute Of Technology (BIT)	27-02-2023	21-04-2023	#####	BIRLA INSTITUTE OF TECHNOLOGY	Department of Computer Science and Engineering	
35	202231071957	Published	1. PARAG ROY 2. ANIMESH GHOSH	PHARMACEUTICAL CO-CRYSTAL COMPOSITION OF PIPERAZINE AND SULFAMETHOXAZOLE AND METHOD THEREOF	Birla Institute Of Technology (BIT)	13-12-2022	24-03-2023	20223107	BIRLA INSTITUTE OF TECHNOLOGY	DEPARTMENT OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY	
36	202241068436	Published	1. MUNAGANURI VISHNUVARDHAN 2. MANISHA GUDURI 3. AMINUL ISLAM 4. Dr. AMIT KRISHNA DWIVEDI	13.9 TERA HERTZ RESONANT TUNNELING DIODE BASED OSCILLATOR	KG Reddy College of Engineering and Technology, Birla Institute Of Technology (BIT)	28-11-2022	03-02-2023	20224106	BIRLA INSTITUTE OF TECHNOLOGY	Dept. of ECE	

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37	202231065637	Published	1. Sourav Kumar Sahu 2. Sonal 3. Debomita Ghosh 4. Dusmanta Kumar Mohanta	METHOD FOR ASSESSMENT OF HOSTING CAPACITY AND VOLTAGE STABILITY FOR RENEWABLE ENERGY INTEGRATED EV CHARGING STATION	Birla Institute Of Technology (BIT)	16-11-2022	21-04-2023	20223106	BIRLA INSTITUTE OF TECHNOLOGY	Dept. of EEE	
38	202211024100	Published	1. ASHOK KUMAR 2. SNEHA SINGH 3. ARCHITA GUPTA 4. PRERNA SINGH 5. SNEHA GUPTA 6. SANJAY KUMAR MEHTA	A BIOCOMPOSITE DELIVERY SYSTEM FOR PHYTOBIOACTIVES IN BONE HEALING	Indian Institute Of Technology Kanpur, Birla Institute Of Technology (BIT)	25-04-2022	26-05-2023	20221102	BIRLA INSTITUTE OF TECHNOLOGY	DEPARTMENT OF BIOENGINEERING AND BIOTECHNOLOGY	
39	202331031960	Published	1.SNEHA SINGH 2. ASHOK KUMAR 3. ARCHITA GUPTA	Nano-scaffold Loaded with trans-Resveratrol Stabilized Gold Nanoparticles for Enhanced Bone Regeneration and Applications Thereof	Birla Institute Of Technology (BIT), IIT Kanpur	04.05.2023	01.12.2023	48/2023	BIRLA INSTITUTE OF TECHNOLOGY	DEPARTMENT OF BIOENGINEERING AND BIOTECHNOLOGY	