

Sr.No	Dept.	Title of Patent	Inventor(s)	Grant Date	Patent No.
1	Dept. of Chemical Engineering	"A Process for Preparation of P-Anisic Acid"	Mr. Pankaj Gandhi Dr. Yogen H Talia Dr. Z V P Murthy	25.11.2014	263852
2	Dept. of Chemistry	"3-Halo Derivatives of Thiomaleic Anhydride and Process for the Preparation Thereof"	Dr. Bharatkumar Z Dholakiya Mr. Patel Jigarkumar Rameshbhai	16.05.2018	296833
3	Dept. of Mechanical Engineering	"Technique for measuring oil film thickness between piston ring and liner in an unfired I c engine & reciprocating compressor using strain gauge"	Dr. Dhananjay V Bhatt Mr. Bulsara Mukesh Amrish Mr. Mhatre Dinesh Mr. Mistry Kishore N	29.06.2018	298293
4	Dept. of Chemistry	"Controlled release of therapeutic agents using drug impregnated polymer film"	Dr. Bharatkumar Z Dholakiya Mr. Choubisa Bhusan Mr. Lakdawala Mahendra M	09.07.2018	298644
5	Dept. of Chemistry	"Palladium Catalyzed Synthesis of Benzofurans and Coumarins Using Phenol or Substituted Phenols"	Mr. Upendra Sharma Dr. Naveen Togati Mr. Debabrata Maity	27.07.2018	299110
6	Dept. of Chemistry	"An improved process for the preparation of dihydropyrimidin-2-Ones"	Dr. Kalpana Chaturbhai Maheria Mr. Mistry Sunilkumar R Mr. Joshi Rikesh R Mr. Sahoo Suban Kumar	28.09.2018	301613
7	Dept. of Mechanical Engineering	"The off-set levers-gears"	Dr. Dhananjay V Bhatt Mr. Shah Atulbhai Shantilal Mr. Trivedi Paragkumar J Mr. Multani AltafAbdul Nanji	06.08.2019	317702
8	Dept. of Chemistry	"An Improved process for the preparation of Diarylpyrimidin-2(1H)-Ones"	Dr. Kalpana Chaturbhai Maheria Mr. Mistry Sunilkumar R	30.08.2019	319508
9	Dept. of Mechanical Engineering	"Zero Effluent Discharge Biomass Gasification System"	Dr. S A Channiwala Mr. Padsumbiya Subhash M/s. Gurukrupa Machtech Pvt Ltd, Morbi	26.11.2019	325842
10	Dept. of Chemistry	"Novel Biologically Active Maleimide Compounds and Use Thereof"	Dr. Bharatkumar Z Dholakiya Mr. Patel Jigarkumar R	24.02.2020	332732
11	Dept. of Chemistry	"Novel Process For the Preparation of Furan2, 5-Dione Derivatives"	Dr. Bharatkumar Z Dholakiya Mr. Patel Jigarkumar Rameshbhai	16.03.2020	334762
12	Dept. of Chemistry	"Novel 6-nitro-3-(4-oxo-thiazolidin-2-ylideneamino)-2-phenyl-3H-Quinazolin-4-One and 5-Benzilidine derivatives thereof"	Dr. Smita Manish Jauhari Mr. Rana Aniruddhasinh M Mr. Desai Kishor Ratilal	08.05.2020	336571
13	Dept. of Chemical Engineering	"PPEA/MAA active layer containing forward osmosis membrane and a method of preparing thereof"	Dr. Alka A Mungray Mr. Pankaj M Pardeshi	15.12.2020	353731
14	Dept. of Civil Engineering	"A Method for Producing Angular Shaped Fly Ash Aggregate"	Dr. Satyajeet Patel Mr. Hrishikesh Shahane Ms. Deepti Patel	23.03.2021	362571
15	Dept. of Mechanical Engineering	"Supportive Motion Assembly for Bicycle Drive Train" THE IDLE ACTION-REACTION FORCE ACTIVATION COST FREE TO ROTARY TRANSMISSION SYSTEM.	Dr. Dhananjay V Bhatt	27.07.2021	372851
16	Dept. of Electronics Engineering	"Dual Screen Mobile with Solar Charging"	Mr. Pinalkumar Engineer Mr. Lokesh Sharma	03.09.2021	376361
17	Dept. of Mechanical Engineering	"Pipe Leakage Detection and Repair Robot"	Dr. Harshit K Dave Mr. Ankitkumar Nikum Mr. Rajatkumar Singh Mr. Aditya Gupta Mr. Apeksha Nikum	20.10.2021	379440
18	Dept. of Civil Engineering	"A System for Compositing of Flower Waste and a Method thereof"	Dr. Kunwar Durg Vijaysingh Yadav Mr. Dayanand Sharma	12.11.2021	381773

Sr.No	Dept.	Title of Patent	Inventor(s)	Grant Date	Patent No.
19	Dept. of Civil Engineering	"Polymer mortar composite from post-consumer PET waste modified with MMA and POFA and process for preparation thereof"	Ms. Bhagyashri Sarde Dr. Yogesh D Patil Dr. Bhartkumar Z Dholakiya	28.01.2022	387089
20	Dept. of Chemical Engineering	"Ultrasonic enhanced Y-type microchannel emulsification system and drug encapsulation process using the said system"	Dr. Sanjaykumar R Patel Ms. Preena Shrimal Dr. Girirajsinh C Jadeja	25.01.2022	387401
21	Dept. of Chemistry	"An Improved Process for the Preparation of High Molecular Weight Polylactic Acid"	Dr. Bhartkumar Z Dholakiya Mr. Choubisa Bhusan Mr. Mayank Patel	23.02.2022	390158
22	Dept. of Chemical Engineering	"Perovskite Solar Cell with Poly(3-hexylthiophene) based Gradient Heterojunction Layer and Method Of"	Dr. Jignasa V Gohel Mr. Saikumar Nair	21.03.2022	392369
23	Dept. of Chemical Engineering	" Process for Synthesis of Copper Zinc Tin Sulfide CZTS Material as Hole Transport Material"	Dr. Jignasa V Gohel Mr. Siddhant B Patel	20.05.2022	397301
24	Dept. of Chemical Engineering	"Process for Vitamin Supplements Size Reduction Using Hydrotopic Antisolvent Crystalization"	Dr. Meghal A Desai Mr. Akash D Patel	20.09.2022	407111
25	Dept. of Civil Engineering	"Coconut Palm Stem Shaped Headed Stud Shear Connector"	Dr. Y D Patil Mr. Rahul Pardeshi	22.11.2022	412146
26	Dept. of Chemical Engineering	"Method for Preparation of Curcumin Nanoparticles"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Ms. Kanika Meena Dr. Chetankumar M Patel	29.11.2022	412886
27	Dept. of Chemical Engineering	"Method for synthesis and fabrication of MWCNT@ZIF-8-67/PVDF nanocomposite mixed matrix membrane for pervaporative saltwater desalination"	Dr. Z V P Murthy Mr. Dipeshkumar Kachhadiya Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	02.12.2022	413558
28	Dept. of Chemical Engineering	"Method for Photocatalytic Degradation of Drimaren Orange P2R Dye using ZIF-8/Ag3PO4/PVDF Photocatalytic Mixed Matrix Membrane"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Mr. Dipeshkumar Kachhadiya Dr. Chetankumar M Patel	20.12.2022	415007
29	Dept. of Chemical Engineering	"Method for Photocatalytic Degradation of Drimaren Orange P2R Dye using h-BN/Ag3PO4/PVDF Photocatalytic Mixed Matrix Membrane"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	17.03.2023	425664
30	Dept. of Civil Engineering	"Zero Valent Iron Modified Sand Filter for Grey Water Treatment"	Dr. M Mansoor Ahammed Mr. Irshad N Shaikh	23.03.2023	426406
31	Dept. of Chemical Engineering	"Method for Photocatalytic Degradation of Drimaren Orange P2R Dye using MoS2/Ag3PO4/PVDF Photocatalytic Mixed Matrix Membrane"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Dr. Chetankumar M Patel	19.04.2023	429315
32	Dept. of Mechanical Engineering	"Rotary Delayed Entry Valve for Hydrogen Fuelled Engine"	Dr. S A Channiwala Dr. Vikas Patel	04.05.2023	431126
33	Dept. of Chemical Engineering	"Zeolitic Imidazolate Framework-67 Based Concrete Composition and Method of Its Preparation"	Dr. G R Vesmawala Dr. Z V P Murthy Mr. Amol Vijay Sonavane Mr. Mallikarjun Hulagbali	09.05.2023	431286
34	Dept. of Computer Science & Engineering	"Method And System For Maintaining Chain Of Custody For Evidence And Verifying Integrity Of Electronic Evidence Through Smart Contract On Blockchain"	Mr. Aman Framewala Dr. Dhiren Patel Mr. Sarvesh Harale Mr. Vasu Mistry Mr. Sanket Shanbhag Mr. Bhavesh Borisaniya	05.06.2023	433709
35	Dept. of Civil Engineering	"Reduced Graphene Oxide-Based Concrete Composition And Method Of Its Preparation"	Dr. G R Vesmawala Mr. Amol Vijay Sonavane Mr. Mallikarjun Hulagbali	14.07.2023	438931
36	Dept. of Chemical Engineering	"A Process for Simultaneous Extraction of Pectin & Magniferin From Mango Peel"	Dr. Meghal A Desai Mr. Vishal B Thakre Dr. Girirajsinh Jadeja	28.07.2023	441070
37	Dept. of Mechanical Engineering	"A Liquid Cooled Variable Channel Width Double Layered Minichannel Heat Sink (VWcDL-MCHS) with Zero Overlap"	Dr. Hemantkumar B Mehta Mr. Nirav Kumar M Patel	03.08.2023	442614

Sr.No	Dept.	Title of Patent	Inventor(s)	Grant Date	Patent No.
38	Dept. of Chemistry	"An Industrial One Pot Process for the Preparation of Chlorzoxazone"	Dr. Premlata Kumari Mr. Mahesh D Vaghasiya	31.08.2023	448736
39	Dept. of Civil Engineering	"Volumetrically Redistributed Headed Stud Shear Connectors"	Dr. Y D Patil Mr. Prakash Singh Mr. Rahul Pardeshi	18.09.2023	452297
40	Dept. of Civil Engineering	"Low Calcium Fly Ash Based Angular Shaped Aggregate And Method For Producing The Same"	Dr. Satyajeet Patel Mr. Sandeep Singh Mr. Shahane Ashok Hrishikesh Mr. Satyakam Rajiv Mr. Soni Naredrakumar Mr. Pranay	09.10.2023	457555
41	Dept. of Mechanical Engineering	"Hybrid PCM-based Heat Sink Coupled with Heat Pipe for Thermal Management of Electronics Systems"	Dr. Naresh Yarramsetty Dr. J Banernjee	31.10.2023	464157
42	Dept. of Electronics Engineering	"A Novel Microfluidic Approach For Bio-Mems Applications"	Dr. Anand Darji Mr. Dinesh Rotke	23.11.2023	471961
43	Dept. of Mechanical Engineering	"Constant Temperature Water Bath for Thermal Cyclic Test"	Dr. Manish K Rathod	30.11.2023	474930
44	Dept. of Chemical Engineering	"Microfluidic Device For Synthesis Of Fenofibrate Drug Nanoparticle Under Ultrasonic Cooling Crystallization And Process Thereof"	Dr. Sanjaykumar R Patel Ms. Rashmita Behera	30.11.2023	475250
45	Dept. of Chemical Engineering	"H-Bn@Mil-101(Cr)/Pvdf Photocatalytic Mix Matrix Membrane For Degradation Of Reactive Dye From Textile Industry Effluent"	Mr. Amol Sonawane Dr. Z V P Murthy	30.11.2023	475401
46	Dept. of Chemistry	"Cardanol Based Bio-polyol and Process for Preparation Thereof"	Dr. B Z Dholakiya Ms. Nilam Gamit	11.12.2023	480560
47	Dept. of Chemical Engineering	"Fabrication of Deep Eutectic Solvent Encapsulated MIL-53(Fe) based Chitosan Bio-polymeric Membrane for Organic Solven Separation"	Dr. Z V P Murthy Mr. Amol Vijay Sonavane Mr. Dipeshkumar Kachhadiya	15.12.2023	483114
48	Dept. of Civil Engineering	"Greywater treatment system using combination of phytoremediation and filtration"	Dr. Kunwar Durg Vijaysingh Yadav Mr. Rajnikant Prasad	18.12.2023	484342
49	Dept. of Chemical Engineering	"Mixed Cationic Perovskite Solar Cell with UiO66 as Passivating Material and method of its Fabrication"	Dr. Jignasa Gohel Mr. Shubham Khare	21.12.2023	486607
50	Dept. of Mechanical Engineering	"Abrasive Material Delivering Apparatus with Precise Control"	Dr. Abdul Hafiz Shaikh Mr. Ketan D Panchal	02.01.2024	493171
51	Dept. of Chemical Engineering	"Method Of Fabricating Tio2@Mil-101(Cr)/Pvdf Photocatalytic Mix Matrix Membrane And Reactive Dyes Degradation Using The Same"	Mr. Amol Sonawane Dr. Z V P Murthy	10.01.2024	496940
52	Dept. of Civil Engineering	"Polymer Mortar Composite and a Process for Preparation Thereof"	Dr. Y D Patil Dr. Bharat Dholakiya Ms. Bhagyashree Sarde	07.02.2024	508289
53	Dept. of Mechanical Engineering	"BANDSAW MACHINE HAVING ADJUSTABLE INCLINATION OF TOP ARM"	Dr. H K Raval Mr. Bhaveshkumar G Mewada	27.02.2024	515808
54	Dept. of Chemical Engineering	"Platinum and Selenium Nanocomposites Coated Flourine-doped Tin Oxide (FTO) Electrochemical Sensor for Hydrogen Peroxide Dectection"	Dr. Mausami Mukhopadhyay Mr. Nilesh S Dumore	06.03.2024	520712
55	Dept. of Mechanical Engineering	"Air Assisted Pressure Swirlatomizer for Gas Turbine Applications"	Dr. S A Channiwala Dr. Digvijay Kulshreshtha Mr. Saurabh Dikshit	06.03.2024	521125
56	Dept. of Mechanical Engineering	"A Blade for Variable Speed Small Horizontal Axis Wind Turbine"	Mr. Neeraj Verma Dr. Beena D Baloni	07.03.2024	521510
57	Dept. of Mechanical Engineering	"System to Control Heat from a Battery Pack System"	Dr. Hemantkumar B Mehta Dr. Vipul M Patel Mr. Kalpak Sagar Mr. Milan Vachhani	11.03.2024	522943

Sr.No	Dept.	Title of Patent	Inventor(s)	Grant Date	Patent No.
58	Dept. of Electronics Engineering	"Metamaterial Integrated Radio Frequency Waveguide for Soil Characterization"	Dr. Piyush N Patel Mr. Paresah Sagar	12.03.2024	523876
59	Dept. of Chemical Engineering	"An Integrated Equipment for Crushing and Extraction"	Dr. Desai Meghal A Dr. Parikh J K Dr. Solanki K P	14.03.2024	525771
60	Dept. of Mechanical Engineering	"Upward Swirl Type Combustor With Reverse Fuel Injection And Radial Air Distribution System"	Mr. Parag Rajpara Dr. Rupesh Shah Prof. Jyotirmay Banerjee	15.03.2024	528357
61	Dept. of Mechanical Engineering	"Method For Controlling The Formation Of Intermetallic Compound (Imc) In Welding Of Dissimilar Metals"	Dr. Vivek Kalyankar Mr. Gautam Chudasama	24.04.2024	534606
62	Dept. of Mechanical Engineering	"High-Entropy Multielement Alloy Matrix Coating Composition"	Mrs. Jyoti Menghani Mr. Akash A Vyas Mr. Pringal M Patel Mr. Satish R More	29.04.2024	535541
63	Dept. of Mechanical Engineering	"Cryogenic Pulsating Heat Pipe with Cylindrical Shell Type Condenser and Cooling Method Thereof"	Dr. Hemantkumar B Mehta Mr. Kalpak Sagar Dr. H B Naik	02.05.2024	536680
64	Dept. of Mechanical Engineering	"Storm Proof Vertical Axis Wind Turbine"	Dr. Prabhansu Mr. Yash Mandaliya Mr. Sunil Bagde Mr. Mohd Aman Sidiqqi Mr. Somdeep Bhushan	03.05.2024	536723
65	Dept. of Electronics Engineering	"Portable Devise and Method for Location Mapping"	Dr. Shweta N Shah Mr. Mehul V Desai Mr. Darshana Jagiwala	08.05.2024	537215
66	Dept. of Mechanical Engineering	Water Conservation Attachment for Western Style Commode	Dr. Dhananjay V Bhatt Mr. Dwij V Bhatt	21.05.2024	538816
67	Dept. of Computer Science & Engineering	"Method And System For Analyzing And Visualizing Transaction Data In Blockchains"	Mr. Sarvesh Harale Mr. Aman Framewala Dr. Dhiren Patel Mr. Sanket Shanbhag	30.05.2024	540221
68	Dept. of Mechanical Engineering	"Ambient Temperature Simulator"	Dr. Manish K Rathod Dr. Jyoti V Menghani	15.07.2024	544915
69	Dept. of Mechanical Engineering	"Atmospheric Water Harvesting System Based On Evacuated Tube Solar Air Heater"	Dr. Amit Kumar Mr. Anshu Agrawal Mr. Abhishek Tiwari Dr. A D Parekh	22.07.2024	545513
70	Dept. of Mechanical Engineering	"Electricity Free Liquid Nitrogen Refrigeration System (NITROGENATOR) for Food Preservation"	Dr. Yogendra V Kuwar	13.08.2024	547632
71	Dept. of Chemistry	"A 2d Polymeric Network Of Zinc Organophosphate With 8-Membered Ring Core"	Mr. Shubham Kumar Dr. Ritambhara Jangir	19.08.2024	547980
72	Dept. of Chemical Engineering	"Method of Preparation of Metal-Organic Framework Incorporated Hollow-Fiber Membrane for Rubber Processing Wastewater Treatment Via Membrane Bioreactor"	Dr. Sarita Kalla Dr. Z V P Murthy Ms. Disha H Gajipara Mr. Amol Sonawane	30.08.2024	549292
73	Dept. of Civil Engineering	"Apparatus for Generation of Vibrations due to Cyclic Loading"	Ms. Pooja S Rao Dr. A K Desai Dr. C H Solanki	16.09.2024	550320
74	Dept. of Mechanical Engineering	"System And Method For Harvesting Water From Atmospheric Air"	Dr. Amit Kumar Mr. Pravesh Kumar Kushwaha Dr. Rajesh Choudhary Mr. Anshu Agrawal	19.09.2024	550502
75	Dept. of Chemical Engineering	"AN INORGANICALLY PASSIVATED PEROVSKITE LAYER, A PEROVSKITE SOLAR CELL COMPRISING THE SAME, AND A METHOD OF PREPARATION THEREOF"	Dr. Jignasa V Gohel Mr. Srish P Kulkarni	27.09.2024	551334

Sr.No	Dept.	Title of Patent	Inventor(s)	Grant Date	Patent No.
76	Dept. of Chemical Engineering	"DES ENCAPSULATED MIL-101(CR)/PVDF MIXED MATRIX MEMBRANE FOR DYE DEGRADATION FROM INDUSTRIAL WASTEWATER"	Dr. Sarita Kalla Dr. Z V P Murthy Mr. Amol Vijay Sonawane Mr. Dipeshkumar Kachhadiya	30.09.2024	551432
77	Dept. of Computer Science & Engineering	"System and Method for Securing Smart Devices"	Dr. Uday Pratap Rao Dr. Piyush Kumar Shukla Mr. Ankur Bang	30.09.2024	551433
78	Dept. of Mechanical Engineering	"A SYSTEM FOR PROVIDING A THREE-LINK MECHANISM FOR ENERGY HARVESTING THROUGH SPEED BREAKERS OF VEHICLES"	Dr. Rohit Tamrakar Mr. Kartik Prajapati Ms. Kritika Jain Mr. Tanmay Jog Mr. Anuroop Kumar Bandrupalli	30.09.2024	551472
79	Dept. of Chemical Engineering	"Method for Synthesis of SnO2 Nanocatalyst Using Leaf Extract of Delonix Regia"	Dr. Mausami Mukhopadhyay	30.09.2024	551576
80	Dept. of Electronics Engineering	"Design and Development of E-Textile Antenna Bio-Sensor for Knee Effusion Diagnosis"	Dr. Piyush N Patel Dr. Arpan H Shah	05.11.2024	553883
81	Dept. of Chemistry	"Synthetic Strategies of Indium (III) based MOF and Adsorptive Removal of Dyes"	Dr. Ritambhara Jangir Dr. Sarita Kalla Mr. Ketan Maru	13.11.2024	554308
82	Dept. of Chemistry	"A Microwave Based Method for Synthesis of Indium (III)- Based MOF"	Mr. Ketan Maru Dr. Ritambhara Jangir Dr. Sarita Kalla	29.11.2024	555545
83	Dept. of Chemistry	"CARDANOL BASED SOL-GEL DERIVED POLYURETHANE POLYMER MORTAR (SGPM) COMPOSITES AND PROCESS FOR PREPARATION THEREOF"	Dr. Bharatkumar Zaverbhai Dholakiya Ms. Nilam Gamit Dr. Yogesh Deoram Patil Ms. Sarde Bhagyashri	21.01.2025	558370
84	Dept. of Chemical Engineering	"Hydrogenation of Pentose Sugar Over a Porus Catalytic System"	Dr. Jigisha K Parikh Ms. Khushbu H Bhavsar	10.02.2025	559830
85	Dept. of Chemical Engineering	"Low Cost Highly Precise and User Friendly Method of Fabrication of Micro Channel without the Use of Sophisticated Instruments/Equipments"	Dr. V N Lad Mr. Svapnil Kevat	13.02.2025	560138
86	Dept. of Civil Engineering	"System And Method For Facilitating Data Integration And Seamlessly Enabling Movement Of Vehicles"	Mr. Rajesh Chouhan Dr. Ashish Dhamaniya	13.02.2025	560228
87	Dept. of Chemical Engineering	"Transdermal Patch for Delivery of Vitamin B12 using Hydrotrope as a Penetration Enhancer"	Dr. Meghal A Desai Mr. Akash D Patel	17.03.2025	562594
88	Dept. of Chemical Engineering	"Novel Integration of MOF 525 and Inorganic Additives for Superior Performance of Low-cost Carbon based Perovskite Solar Cells"	Dr. Jignasa V Gohel Mr. Nishantkumar Rana	28.03.2025	564329
89	Dept. of Computer Science & Engineering	"System for Securing Large Scale RPL Based IOT Networks"	Mr. Ankur Bang Dr. Uday Pratap Rao	31.03.2025	564710