

**List of Applied Patent Applications from
Tezpur University**

Sl. No	Application No	Title of Invention	Inventor (s)
1	202531003015	Dengue 2 virus infection detection kit based on paper capacitance using inclined comb electrode structure	Dr. Partha Pratim Sahu, Mr. Geethartha Sarma and Dr. Biswajyoti Borkakoti
2	202531000131	Biodegradable plates from areca nut husk and water hyacinth fibre	Bedanta Rajbongshi, Laxmikant Shivrath Badwaik, Akuleti Saikumar and Bidisha Karjee
3	202431103369	A nano-composite based electrochemical sensor for creatinine detection	Dr. Jiten Chandra Dutta and Ms. Kabyashree Hazarika
4	202431097193	Urine deodorizer spray for application in private and public urinal / restroom	Robin Kumar Dutta, Rituparna Saikia, Tushmita Das and Saranga Baishya
5	202431095009	Fabrication and Characterization of a Carbon Nanotube-based Enzyme Field Effect Transistor (CNT-ENFET) for the detection of Sarcosine	Jiten Chandra Dutta and Onishaa Saikia
6	202431081191	A vision-based photogrammetric measurement system for Litchi crop management automation	Dr. Bhabesh Deka and Mr. Debarun Chakraborty
7	202431078656	A Bistable Door Hinge-Control	Mr. Lalit Patidar, Ms. Anwesha Neog and Dr. Vivek Kumar Mehta
8	202431074442	Paper Electrochemical Sensor For Sodium And Potassium Ions Detection In Human Sweat Using Portable Microcontroller Based Potentiostat	Partha Pratim Sahu, Rimjim Shibam, Abhishek Kumar Rai and Dipangshu Konwar
9	202431067336	Priming Of Seeds With Quantum Material Ensemble	Pritam Deb, Karan Kumar Das and Sayoree Purakayastha
10	202431064005	TiO ₂ -MWCNT-Chitosan nanocomposite based amperometric DNA biosensor for ultra sensitive detection of bacterial meningitis	Jiten Chandra Dutta, Nur Mehbub Alam and Onishaa Saikia
11	202431062957	Process For Enhancement Of Viscoelastic Behavior Of Gluten Free Flour	Soumya Ranjan Purohit and Sanstuti Prasad
12	202431062326	System For Measuring Moment Of Inertia Of The Rotor Of A Motor	Shantanu Sharma, Subhankar Chakraborty and Rupam Goswami
13	202431059617	Method And System To Obtain Multimodal Microscopic Imaging Viewable On Any Wi-Fi Enabled Display Panel	Pabitra Nath and Biprav Chetry
14	202431057140	A Low-Cost Single Lead ECG Acquisition System Using Paper-Based Silver (Ag) Electrodes for the Diagnosis of Cardiovascular Disease	Bidyut Bikash Borah, Geethartha Sarma, Soumik Roy, Dhruba K. Bhattacharyya and Bikash Rai Das

15	202431041124	See-Through Meta-Structure Absorber For Camouflaging Solar Panel	Nidhi S. Bhattacharyya and Sanghamitra Saikia
16	202431039000	Process For Conservation Of Cellulosic Handmade Paper Manuscripts And Machine-Made Paper Books	Robin Kumar Dutta, Rituparna Saikia, Priya Devi, Mousum Dutta
17	202431035281	Age Detection Of Rice Grains	Miran Jyoti Buragohain, Subhankar Chakraborty and Santanu Sharma
18	202431035472	Method And System To Obtain Enhanced Autofluorescence Signal From Microbial Species On A Portable Sensing Platform	Pabitra Nath, Biprav Chetry and Chunuranjan Dutta
19	202431015607	Pahi: Next-Gen Responsive Bionic Arm 1.0	Durlav Sonowal and Rajjul Hussain
20	202431012822	Traction Control Using Magnetorheological Dampers For Electric Vehicle	Subhankar Chakraborty, Shantanu Sharma and Pronita Boro
21	202431007408	Two-Dimensional Nanocomposite For Soil Health Enhancement	Pritam deb, Prarthana Puzari, Saransha Mohanty and Antara Deb
22	202431006877	Innovative Laboratory-Scale Prototype For Smoke-Drying And Fermenting Fish To Produce Napham, Tailored For Assam And The North- East Region Of India	Sankar Deka, Kapil Deb Nath and Nikhil C.
23	202431004627	Development Of Shelf Stable Passion Fruit Based-Beverage Enriched With Beta-Carotenoid	Charulata Mahanta and Hemanta Chutia
24	202431002828	Antimicrobial Conformal Coating for Perishable Food Preservation	Pritam Deb, Korobi Konwar and Gayatri Sarkar
25	202331088284	Snake Venom Detection Kit Using Planer Paper Substrate Capacitance	Partha Pratim Sahu, Geetarthha Sarma, Upasana Puzari and Asis Mukherjee
26	202331086603	Capacitive Sensing For Quantifying And Debittering Of Naringin And Limonin In Citrus Limetta (Mosumbi) Juice	Partha Pratim Sahu and Satyajit Das
27	202331068011	IOMT based hospital network with openflow QOS support and fog/cloud offloading	Dr. Nabajyoti Medhi, Mr. Kumarjit Ray, Mr. Rajdeep Ghosh, Mr. Adittya Dey, Mr. Kunal Das, Mr. Pritindra Das, Mr. Vicky Kumar Deka, Mr. Tridib Lochan Dutta, Ms. Debangee Goswami, Mr. Prabhatangshu Phukan, Pratik Chanda, Birglang Bargayary and Arindom Aich
28	202331047578	Automated device for stem removal of King Chilli (Bhut Jolokia)	Abinash Thakur, Onishaa Saikia, Jiten Chandra Dutta and Satyajib Bhattacharya
29	202331046993	Low-cost biodegradable plate made from Eggshell	Sriram M. and Laxmikant S. Badwaik

30	202331046391	Paper based device for simultaneous sensing of multiple adulterants and contaminants in raw milk	Rajib Biswas, Upama Das, Nikhil Kumar Daimari, Pohar Borah and Ashamoni Neog
31	202331044106	A quick and efficient daylight photocatalyst	Pawan Chetri, Rituraj Mahanta and Gazi Ameen Ahmed
32	202331038151	A cost effective and smart e-commerce inventory management system using autonomous system of blind mobile robots	Barnali Chowdhury, Pradipta Barma
33	202331012154	Detection of egg albumin	Arindom Sharma, Subhankar Chakraborty and Santanu Sharma
34	202331007131	Black fungus detection kit based on inter-digital planer paper capacitance	Partha Pratim Sahu, Subham Verma, Satyajit Das, Bidhisha Saha, Sanjeev Karmakar and Pranobesh Chattopadhyay
35	202331006389	A prototype paper capacitive sensor for onsite rapid detection cysteine content in blood plasma	Partha Pratim Sahu and Biswadeep Roy
36	202331000063	Smart Portable Dheki	Nidhi S. Bhattacharya, Bidhan Ch. Das, Abhilash Gayan and Pranjit Kr. Baishya
37	202231069759	STAMP (Stacked Tray Modular Photobioreactor)	Dhanapati Deka and Doljit Borah
38	202231066854	Microwave selfhealable and melt reprocessable environmentally benign, organic solvent-free, and surfactant-free waterborne polyurethane/acrylic dispersions	Niranjan Karak and Samiran Morang
39	202231058974	Online biogas plant diagnostic, forecasting and management system	Priyam Kumar Das, Durlav Sonowal and Debendra Chandra Baruah
40	202231055755	A baking ingredient for fat and egg protein replacer in cake	Amit Baran Das, Manaswini Barik and Adarsh Maurya
41	202231043102	Process for immobilization of pectinase on chitin support using ultrasound	Nandan sit, Nipona Shill, Nurin Afzia, Bhaskar Jyoti Kalita
42	202231042538	Biodegradable heat shrinking film for cylinder gas cap and bottle lid sealing	Pritam Deb, Meenakshi Talukdar and Sudhansu Shekhar Sahoo
43	202231042165	Value-added cattle urine as liquid fertilizer	Robin Kumar Dutta and Rituparna Saikia
44	202231009453	Paper capacitive sensor based novel corona virus detection kit	Partha Pratim Sahu, Geetartha Sarma and Biswajit Kakoty
45	202031002271	Removal of arsenic from ground water by capsule technique.	Chiranjeev Bezbaruah, Parag Nath and Robin

			Kumar Dutta
46	202131060631	A smartphone based analytical system	Pabitra Nath, Diganta Rabha and Diganta Hatiboruah
47	202131055185	Remote controlled device for collection of oil from the oil spill on land	Pritam Deb, Monika Sharma and Nitumoni Konwar
48	202131054965	Device for sensing and collection of Oil spill on water bodies	Pritam Deb, Monika Sharma and Manas Pratim Chetry
49	202131045925	IoT Based Portable Ventilator	Ankita Das, Bihung Muchahary, Aniket Raj, Manish Kumar, Firdaus Ahmed, Chiranjit Adhikary and Soumik Roy
50	202131044011	An Oxygen generation equipment based on water splitting for chronic/acute respiratory syndrome patients	Partha Pratim Sahu and Jagat Das
51	202131041315	Development of multimodal optofluidic system for sensing heavy metal ions	Rajib Biswas, Pritam Deb, Nirmal Mazumder and Soumyabrata Banik
52	202131022730	An Emg Based Multi Grasp Prosthetic Hand with an Android Interface	Nayan M. Kakoti and Lakhyajit Gohain
53	202131020238	System for real-time onsite tracing of water content present in aircraft or jet fuel	Partha Pratim Sahu
54	202231030989	Methods and apparatus of multi-modal microscopic imaging on a smartphone and OLED display illumination	Pabitra Nath and Diganta Rabha
55	202031039202	Development of low fat baked snacks using de-oiled soya flour	Ayan Bhattacharjee, Devesh Kumar and Laxmikant S. Badwaik
56	202031016837	Protective face shield system with adaptability for bespectacled wearer for health care/medical purposes	Kishor Kumar Baruah
57	202031000071	An improved iron fortification technique for fortification of rice using cold plasma	Poonam Mishra and Kumudhini Akasapu
58	201931012050	A continuous jaggerymaking machine	Mr. Amit Baran and Das Himakshi Baishya
59	201931052903	Custom synthesized Neuritogenic Peptides and its uses thereof	Ashis Kumar Mukharjee, Taufikul Islam, Rupak Mukhopadhyay, Munmi Majumder
60	201931014698	Two dimensional heterostructure based composite films for food packaging	Pritam Deb and Meenakshi Talukdar

61	201931049269	An EMG based Prosthetic Hand Controller for Real Time Grasping realizing Neuromuscular Constraint	Nayan M. Kakoty, Lakhyajit Gohain
62	201911027455	Aptamers against phospholipase A2 in snake Venom and uses thereof	Tarun Kumar Sharma, Anjali Anand, Robin Doley
63	201931020788	Polymer/antibiotic coated Muga (antheraea assamensis) silk suture	Arup Jyoti Choudhury, Gazi Ameen Ahmed, Namita Ojah
64	201931020800	An optical fiber prototype instrument for online monitoring of transformer oil insulation	P.P. Sahu
65	201831045155	System for enhancing stability of bicycle by steering-back handle bar automatically	Dilip Dutta, Sudipta Saikia, Zahnapriya Kalita and Arpeeta Saikia
66	201831045154	A saddle system for female bicycles adapted to counter forward slip of rider on saddle surface during sudden braking	Dilip Dutta, Arpeeta Saikia, Zahnapriya Kalita and Sudipta Saikia
67	201831009592	Designed 2d graphitic sheet for viscous oil removal using magnet	Pritam Deb and Meenakshi Talukdar
68	201831010002	Toxin-epitope based detection of species-specific snake envenomation	Asish Kumar Mukherjee and Sumita Dutta
69	201831009528	A portable optical fiber instrument for instant petrol purity detection	Partha Pratim Sahu
70	201831009678	Integrated and automated setup for preparation and vending of panipuri	Saurav Jyoti Sarma, Abhijit Nath, Polas Pratim Dutta and Chanddeep Suman Gogoi
71	201831038837	Toxins-targeted specific novel anti snake venom	Ashis Kumar Mukherjee, Aparup Patra, Sumita Dutta, Bhargab Kalita, Abhishek Chanda
72	201831010001	Synthetic anticoagulant peptides derived from <i>Naja naja</i> snake venom	Asish Kumar Mukherjee and Sumita Dutta
73	201831009091	A smokeless multifunctional and multipot solid fuel stove	Biswajit Gogoi and Debendra Chandra Baruah
74	201731009379	Magnetic secondary nanostructure as contrast agent for magnetic resonance imaging	Pritam Deb and Koushik Saikia
75	201731000104	Selective para-hydroxylation of substituted aromatic hydrocarbons using H ₂ O ₂ catalyzed by waterborne hyperbranched polyurethane/ carbon quantum dot nanocomposites	Niranjan Karak, Vijay Kumar Das and Satyabrata Gogoi
76	201631022922	Smartphone based system for detection and measurement of chemical and biological species in liquids	Iftak Hussain, Syed Ibtisam Tauhidi, Kamal Uddin Ahamad Pabitra Nath
77	201631016888	A Two Way Ratchet	Arup Jyoti Chutia

78	201631005351	Casein Nanoparticles for Colon Targeted Controlled Delivery of Biologically Active Agents in Foods	Pallab Kumar Borah and Raj Kumar Duary
79	1313/KOL/2015	Anticoagulant actives and synergistic anticoagulant composition and method of producing the same	Ashish Kumar Mukherjee and Debananda Gogoi
80	1295/KOL/2014	Mesoporous secondary nanostructures as multifunctional heavy metal scavenger	Pritam Deb, Kakoli Bhattacharya and Devaborniny Parasar
81	522/KOL/2008	A Reduced Size Linearly Tapered 3dB (Half Power Splitter) Multimode Interference (MMI) Coupler	Partha Pratim Sahu