

## AMITY INSTITUTE OF NANOTECHNOLOGY

### PATENT LIST

S.No.	Name of Inventors	Title	Application No.	Date of Submission	Status
1.	Dr. R. P. Singh Dr. Monika Joshi	Development of Humidity Sensor using cross linking polymer with electrolyte.	498/DEL/2009	March 16, 2009	Granted (29.09.2020)
2.	Prof. T. Basu	A Novel transducer matrice for amperometric cholesterol biosensor	734/DEL/2009	April 9, 2009	Granted (13.08.2021)
3.	Dr. O.P Sinha, Charu Vashishth, Dr. R. P. Singh	Process for imparting or enhancing electrical conductivity of polymer matrix with semiconductor nanoparticles	898/DEL/ 2009	May 1, 2009	Granted (11.03.2019)
4.	Prof. T. Basu, Harsh Kapoor	A process for the synthesis of semiconducting metal oxide nanoparticles of controlled size distribution	1053/DEL/2009	May 22, 2009	Granted (19.02.2019)
5.	Dr. Arpita Bhattacharya & Dr. R.P. Singh	Prolonged release mosquito repellent formulations	765/DEL/2009	April 15, 2009	Granted (04.06.2020)

6.	Dr. Sandip Chakrabarti & Dr. R.P. Singh	Method for preparation of catalyst its activity and method for treatment of Textile wastewater	900/DEL/2009	May 1, 2009	Granted (11.03.2019)
7.	Mr. Robin Kumar	A highly functional semiconductor integrated circuit device	921/DEL/2009	May 5, 2009	Granted (02.12.2019)
8.	Deepshikha and Tinku Basu	Process of synthesis a novel a transducer and its application there of in biosensors	704/DEL/2009	2009	
9.	Dr. R. P. Singh	Synthesis of Fenugreek (Trigonella foenum-graecum) leaf extract mediated Ag nanoparticles and their mechanism of formation	2571/DEL/2010	October 27, 2010	
10.	Dr. R. P. Singh,	Anti-Bacterial effect on Fenugreek (Trigonella foenum-graecum) leaf extract mediated silver nanoparticles	2708/DEL/2010	November 12, 2010	
11.	Dr. R. P. Singh	Synthesis of Ag nanoparticle from seed extract	3363/DEL/2011	November 14, 2011	
12.	Garima Singhal, RP Singh, Mima Kurian	Biosynthesis of silver nanoparticles using Myristica Fragrans (nutmeg) seed extract	3621/DEL/2011	December 13, 2011	
13.	Prof. T. Basu	Development of reusable transducer matrix based on nanostructured Polyaniline and application to biosensors,	1478/DEL/2011	May 24, 2011	Granted (04.02.2020)
14.	Prof. T. Basu	A process for the development of triglyceride biosensor based on a Platinum nano particle and	1318/DEL/2012	April 25, 2012	

		Polypyrrole nano composite electrode			
15.	Prof. T. Basu	A Novel reusable cholesterol biosensor based on Gold nanoparticles decorated Graphene-Nanostructured Polyaniline Nanocomposite	1371/DEL/2012	May 4, 2012	Granted (19.03.2021)
16.	Dr. Pratima Solanki, Prof. Tinku Basu	Sensitive and specific for the Vibrio cholera detection	3964/DEL/2012	December 21, 2012	Granted
17. ranted	Dr. O.P. Sinha & Dr. Sandip Chakrabarti	Efficient organic photovoltaic devices using photoactive graphene oxide, organic linkers and semiconductor nanoparticles	1029/DEL/2012	April 3, 2012	
18.	Dr.Arпита Bhattacharya, Dr. R.P. Singh	A micro incapsulation of citronella oil for slow release insect repellent formulation	3962/DEL/2012	December 21, 2012	
19.	Dr.Sandip Chakrabarti & Dr. O.P.Sinha	Graphene based chemical sensor for the detection of toxic heavy metal complexes in drinking water	1030/DEL/2012	April 3, 2012	Granted (27.04.2020)
20.	Dr. Ashish Mathur, Harsh Jain, Dr. O. P. Sinha, Dr. R.P. Singh	A novel hand held micro-electrode sensor for detecting fuel adulteration based on micro-fluidic platform	2374/DEL/2013	August 8, 2013	Granted (15.02.2023)
21.	Dr. Monika Joshi, Pranaav Balaji	Green synthesis of silver nanoparticles using ethanoic extracts of Zanthoxylum Alatum Leaves	3104/DEL/2013	February 2, 2013	Granted (30.01.2023)
22.	Dr. Monika Joshi, Pranav Balaji	Novel synthesis of magnetic Iron oxide nanoparticles using cinnamon leaf extract	3281/DEL/2013	November 11 2013	Granted in (23.03.2022)

23.	Dr. Susmita Mitra & Ms.Gizelle Sethi	Novel biodegradable nanoparticles for controlled release drug delivery	1402/DEL/2013	May 10, 2013	
24.	Dr. A.B.V. Kiran Kumar, Dr. Mohan Raja	Method for synthesis of thin silver nanowires	370/DEL/2014	February 10, 2014	
25.	Dr. Mohan Raja, Dr. A.B.V. Kiran Kumar	A novel method of forming flexible multi-walled carbon nanotubes foil	367/DEL/ 2014	February 10, 2014	
26.	Mr. Robin Kumar, Dr. Neelam Kushwaha, Dr. Ranjit Kumar	Ammonia Gas Sensing Using a Thin Film of MnO <sub>2</sub> Nano-fibers	2897/DEL/ 2014	October 10, 2014	
27.	Dr. Ashish Mathur	A miniaturized sensor based on microfluidic platform for caffeine detection from food samples	2961/DEL/ 2014	October 17, 2014	
28.	Dr Shikha Wadhwa, Dr. Ashish Mathur	A Rapid Detection and Photocatalytic Degradation of Amoxicillin Using Titania Thin Film	192/DEL/2015	February 2, 2015	Granted on (26.09.2022)
29.	Dr. Ashish Mathur, Dr. Shikha Wadhwa, Mr. Rathin Gupta	A novel hand-held Chemical free, Milk Adulteration test kit based on Micro fluidic sensor platform	2431/DEL/2015	October 19, 2015	
30.	Dr. O.P. Sinha, Dr. Richa Krishna, Dr. Sandip Chakraborty	Non magnetic elements doped semiconducting metal oxide materials and its utilization in organic electronics	2043/DEL/2015	July 4, 2015	
31.	Dr. O.P. Sinha,	Hydrogels for transdermal Drug delivery and a method to manufacture the same	1388/DEL/2015	May 18, 2015	
32.	Dr. Nupur Bahadur	An efficient and economical process for primary treatment of effluents as well as sludge of textile and dyeing industry	1825/DEL/2015	June 20, 2015	

33.	Dr. Jagriti Narang, Dr. Nidhi Chauhan, Dr. Nitish Malhotra, Chaitali Singhal, Dr. C. S. Pundir	Nanoheterostructure composite for sensing metformin.	2430/DEL/2015	August 7, 2015	
34.	Dr. Monika Joshi	Biosynthesis of Zinc Oxide nanorods using citrullus lanatus extract.	3399/DEL/2015	March 11, 2015	
35.	Dr. Monika Joshi	Algae GO nanocomposite for reduction of Textile Dye.	3994/DEL/2015	March 11, 2015	
36.	Dr. Nupur Bahadur	An improved membrane free photocatalytic reactor for treatment of Industrial effluent and sludge	3950/DEL/2015	December 4, 2015	
37.	Dr. Nupur Bahadur	A process for bandgap restructuring of titania using combination of surfactants and metal ions	3401/DEL/2015	November 25, 2015	
38.	Dr. Jagriti Malhotra, Nidhi Chauhan, Nitesh Malhotra, Chetali Singhal, Vanita Chandel	Method for enhancing the PCR amplification by using MgO nanoparticles	3972/DEL/2015	December 7, 2015	
39.	Dr. Jagriti Malhotra	Wheelchair having armrest cum transfer Board with anti-skid mechanism	2955/DEL/2015	October 21, 2015	
40.	Dr. Monika Joshi	Green Synthesis of Graphene oxide using Chlorella pyrenoidosa	201611014935	April 24, 2016	
41.	Dr. Jagriti Malhotra	A System and method for Naked eye quantitative assay for date rape drug sensing.	201611025138	May 5, 2016	
42.	Dr. Jagriti Malhotra	A system and method for smearless detection of DNA with various morphologies of zinc	201611012990	March 3, 2016	

		nanomaterial in agarose gel electrophoresis			
43.	Dr. Jagriti Malhotra	Flexible planter fasciitis prop	201611003247	January 7, 2016	
44.	Dr Utkarsh Jain, Shikha Wadhwa, Nidhi Chauhan, Ashish Mathur	Development of Molecularly Imprinted Polymer (MIP) based Microfluidic device for Serotonin detection	201611032517	May 10, 2016	
45.	Dr. Nidhi Chauhan	Impedimetric sensing method utilizing enzyme bound nanohybrid film for highly sensitive monitoring of antibiotics in forensic samples	201611041230	2016	
46.	Dr.Ranu Nayak and Harsimran Singh Bindra	A simple cost-effective transfer process of highly uniform thin nanoporous alumina membrane onto rough and flat substrates	201711016285	May 9, 2017	
47.	Dr. Arpita Bhattacharya	A method of controlling root knot nematode	201711003055	January 21, 2017	
48.	Dr. Ranu Nayak, Kritika Pandey, Dr. Swati Jain and Dr. Jagjiwan Mittal	Cost effective smart Sponges for efficient removal of oil, organic pollutant and pathogens for industrial wastewater	201711016712	May 12, 2017	
49.	Dr. Arpita Bhattacharya	Silica nanoparticle as growth promoter of bioagents under in vitro studies	201711008220	March 9, 2017	
50.	Dr. Arpita Bhattacharya	Synthesis of linoleic acid from microalgae using magnetic core-shell nanoparticle	201711011619	January 31, 2017	
51.	Dr. Monika Joshi, Ms. Mahima Sharma	Novel route for biosynthesis of green algae mediated	201711021884	April 25, 2017	

		Titanium Oxide (TiO <sub>2</sub> ) nanoparticles with high yield			
52.	Apoorv Gupta, Adeeba Shakeel, Sujata Sangam, Deepa Suhag, Vinod Kumar, Rohan Bhattacharya, O. P Sinha, Sandip Chakrabarti and Monalisa Mukherjee	Method for preparation of highly fluorescent. Biocompatible sulphur doped graphene quantum dots from affordable agro-industrial bio-waste cane molasses using hydrothermal synthesis for bioimaging application	201711016713	May 5, 2017	Granted on (19.05.2022)
53.	Dr. D. K. Avasthi	TIONX based passive heating water tank	201711032733	2017	
54.	Aarti Singh, Adeeba Shakeel, Monalisa Mukherjee (AICCRS), Sandip Chakrabarti (AINT), Satyendra Kumar Rajput (AIP), Himadri Bihari Bohidar (JNU), Kamla Rawat (JNU), AUUP, Noida. Email: mmukherjee@amity.edu, M - 9873279964	N-doped Carbon Nano Sheet based hydrogel composite for wound healing	201811021906	12/06/2018	Granted (02.02.2023)
55.	Dr. Monika Joshi, Ms. Mahima Sharma	A novel one-pot Bio-directed synthesis of stable ZnO Nanospheres using lemon and honey	201711031211	August 18, 2017	
56.	Dr. Ranjit Kumar, Dr. Ashish Mathur, Dr. Shikha Wadhwa	MnO <sub>2</sub> Nanofibers - Based Bisphenol Electrochemical Sensor	201711041779	Oct-17	
57.	Isha Fuletra, Sumaya Nisar, Aakshi Jairath, Purnya, Tinku Basu	A modified sensor for ultra low detection of Arsenic in contaminated water	201711033463	September 21, 2017	

58.	Dr. Nidhi Chauhan , Utkarsh Jain and Shaivya Gupta	An electrochemical Label Free immunosensor for rapid detection of H.Pylori and its method	201711032732	September 12, 2017	
59.	Utkarsh Jain and Nidhi Chauhan	Home based three parameter measuring device for next generation management of diabetes	201711021883	June 20, 2017	
60.	Utkarsh Jain, Nidhi Chauhan, Dishant Nigam and Abhinav Arora	Vitamin B7 detection through impedimetric sensing device.	201711029678	August 21, 2017	
61.	Utkarsh Jain and Nidhi Chauhan	A molecularly imprinted (MIP) based GABA detection platform for behavior, cognition and body's response to stress	201711042953	September 28, 2017	
62.	Dr. R. M. Tripathi	A Method for Biosynthesis of Stannic Oxide Microbars	201711034682	September 29, 2017	
63.	Chansi, Punya, Irani Mukherjee, Tinku Basu, Pawan K Agrawal , Lalit M Bharadwaj	Ultrasensitive novel electrode for rapid detection of pesticides in vegetable extract collected from field	201811006552	February 21, 2018	
64.	Dr. Nidhi Chauhan and Dr. Utkarsh Jain	A dual detection platform for snake venom toxin	201811013630	March 6, 2018	
65.	Dr. Utkarsh Jain, Dr. Nidhi Chauhan, Sukirti Tiwari and Mayukh Tikadar	A dual mode technique for estimation of concentration change of analyte in dopaminergic effect	20181109539	March 14, 2018	
66.	Dr. Utkarsh Jain and Dr. Nidhi Chauhan	Molecularly imprinted polymer based impedimetric detection of neurotransmitter acetylcholine on	201811009541	March 14, 2018	



		screen printed electrode.			
67.	Dr. Nidhi Chauhan and Dr. Utkarsh Jain	A dual impedimetric immune-sensing for helicobacter pylori detection	201811009540	March 14, 2018	
68.	Dr. Ashish Mathur, Mr. Souradeep Roy, Dr. Shikha Wadhwa, Dr. Ranjit Kumar	Smart bandage for impedimetric detection of L-tyrosine in diabetic foot ulcer (DFU) patients.	201811039747	October 18, 2018	
69.	Dr. Ranjit Kumar, Mr. Deepak K. Sharma, Dr. D. K. Avasthi, Dr. Basant. S. Sikarwar	Novel method for growth of super-hydrophobic silica nanostructures on metallic surfaces	CRN3211/DEL/2018	November 16, 2018	
70.	R. Pragadeeshwara Rao, Chansi, Shalini, Indrajit Roy, Tinku Basu	Robust electrochemical assay for antibiotic susceptibility testing of pathogenic bacteria	201811043408	November 19, 2018	
71.	Chansi, Punya, Rashi Bharadwaj, Karan Hadwani, Tinku Basu, Pawan K Agrawal, Lalit M Bharadwaj	An immunosensor for ultra low detection of total pesticide concentration in vegetable extract	201811034534	September 13, 2018	
72.	Dr. Nidhi Chauhan, Ms. Shakshi Pareek and Dr. Utkarsh Jain	Electrochemical sensor using hybrid nanomaterials for cervical cancer detection.	201911000276	January 3, 2019	
73.	Nada Rahman, B.P. Nayak, J. N. Malhotra, M. Khanuja and O.P. Sinha	Nanoparticles integrated with lactose on FTO act as sensing interface for femto-molar detection of Ricin.	201911002753	January 23, 2019	
74.	Dr. Nidhi Chauhan, Dr. Utkarsh Jain, Dr. Manika Khanuja	PD Nanoparticles and molybdenum disulfide (MOS <sub>2</sub> ) integrated sensing.	201911024092	June 18, 2019	

75.	Dr. Nidhi Chauhan, Asmita Gupta, Dishant Nigam, Abubav Arira, SNC Sai Prasad	A calmodulin based calcium sensing device	201911011663	June 18, 2019	
76.	Dr. Utkarsh Jain, Dr. Nidhi Chauhan	Organophosphorous pesticide detection by molecularly imprinted polymer/ MOS2 based biosensor.	201911011664	June 18, 2019	
77.	Shikha Wadhwa, Alishba T John, Ashish Mathur	Microfluidic based low cost point-of- care apta-sensor for detection of Vitamin D3	CRN3627	November 21, 2019	
78.	Shikha Wadhwa, Ashish Mathur, Alishba T John	Development of luminescent thin film based on graphene quantum dots (GQDs) for various applications	CRN3635	December 6, 2019	
79.	Mahima Sharma, Subhasha Nigam, Monika Joshi, Kannikka Behl, D. K Avasthi, Rupal Sarup	Superhydrophobic textile sludge derived biochar- polydimethylsiloxane nanocomposite for produced water remediatio	CRN3658	September 27, 2019	
80.	Dr. Arpita Bhattacharya	Development of polyurethane based hydrophobic coating formulation with titania nanoparticles prepared through peptization method	CRN2714	March 30, 2020	
81.	Dr. Arpita Bhattacharya	Waste water treatment with sugarcane bagasse based carbon material and titania nanoparticle mixture.	201911014266 (Published on 20.08.2021)	April 9, 2020	
82.	Ranu Nayak, Sudeep Bose and Sangeeta Choudhury	An ultrasensitive and accurate single/multiplexed detection of both DNA and protein biomarker in the same platform	202011007723	April 2020	

83.	Shalini Nagabooshanam, Asish Venkat, Ashish Mathur, Ashwani K Dubey, Shikha Wadhwa	Development of low-cost, portable electronic device using bio-conjugated metal organic framework for detection of organophosphate pesticides	Under process	January 28, 2020	
84.	Dr. Nidhi Chauhan, Dr. Utkarsh Jain, Sapna Balayan	Electrochemical ultra-sensitive detection of neonatal sepsis.	Under process	April 2020	
85.	Dr.Utkarsh Jain, Dr. Nidhi Chauhan, Shringika, Sapna Balayan	A capillary based direct SARS detection device	Under process	April 2020	
86.	Dr. Utkarsh Jain, Dr. Nidhi Chauhan, Sapna Balayan	Immunosensor based detection for neonatal sepsis.	Under process	April 2020	
87.	Utkarsh Jain, Nidhi Chauhan, Shringika Soni, Kirti Saxena, Sapna Balayan	Aptasensor based detection of SARS-CoV-2 on Screen Printed Electrode.	Under process	April 2020	
88.	Nidhi Chauhan, Utkarsh Jain and Sakshi Pareek,	'An ultra sensitive and selective nano-molecular Imprinting polymer based electrochemical Sensor for Follicle-stimulating hormone (FSH) detection'	2021110057	February 11,2021	
89.	Dr. Monika Joshi, Dr. Sandip Chakrabarti	A method for rapid removal of diclofenac sodium from aqueous solution by nitrogen doped graphene Nanosheet.	202111030431	07 July 2021	
90.	Arpita Bhattacharya	A method of preparing a porous activated carbon from Guar Gum-Alginate composite gel	202111059125	18 <sup>th</sup> July 2021	

91.	Arpita Bhattacharya	A method for preparation of Carbon Black and Nano-Silica from Rice Husk	202111053510	22 <sup>nd</sup> November 2021	
92.	Sandip Chakrabarti	A porous coral like M@mox/C hybrids for removing antibiotics from aqueous solution and method thereof	202111062273	31 <sup>st</sup> December 2021	
93.	Monika Dubey, Jyoti Sharma, Subhasha Nigam, Monika Joshi,	A novel composition and synthesis of CEO2 nanoparticles using microalgae for photocatalytic degradation of doxycycline in water thereof	202211008856	February 21, 2022	
94.	Monica Jaiswal, Robin Kumar, Ravi mani Tripathi, Jagjiwan Mittal, AINT, AUUP, Noida	'BISMUTH OXIDE NANORODS FOR H2S SENSING IN AIR AND MEAT PACKAGING AND METHOD THEREOF'	202211020895	April 7, 2022	
95.	Sandip Chakrabarti, Abhyavartin Selvam, Geetika Jain, AINT, Rajib Ghosh Chaudhuri, Mrinal Kanti Mandal, Abhiram Hens	An assembly having metal-organic framework based solar absorber for effective photothermal desalination	202111025489	June 08, 2022	
96.	Abhishek Mishra, Richa Krishna, Monika Joshi,	A biocompatible, antimicrobial membrane for water remediation	202211036385	June 24, 2022	
97.	Mahima Sheoran, Rohit Sharma, Om Prakash Sinha, AINT	A method for synthesis of carbon spheres using peas peel	202211044603	August 4, 2022	



Patent granted – 23.

INTELLECTUAL PROPERTY INDIA  
PATENT CERTIFICATE

SL No : 01111048

भारत सरकार  
GOVERNMENT OF INDIA  
THE PATENT OFFICE

पेटेंट सं. / Patent No. : 307614  
अर्ज सं. / Application No. : 103/DEL/2009  
बहाल करने की तिथि / Date of Filing : 22/05/2009  
पेटेंट / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि निम्नलिखित आविष्कार में प्रकटित "A PROCESS FOR THE SYNTHESIS OF SEMICONDUCTING METAL OXIDE NANOPARTICLES OF CONTROLLED SIZE DISTRIBUTION" नामक आविष्कार के लिए पेटेंट अर्जित किया गया है, जिसके अंतर्गत आविष्कार 22nd day of May 2009 से बीस वर्ष की अवधि के लिए पेटेंट अर्जित किया गया है।  
It is hereby certified that a patent has been granted to the patentee for an invention entitled "A PROCESS FOR THE SYNTHESIS OF SEMICONDUCTING METAL OXIDE NANOPARTICLES OF CONTROLLED SIZE DISTRIBUTION" as disclosed in the above mentioned application for the term of 20 years from the 22nd day of May 2009 in accordance with the provisions of the Patents Act, 1970.

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11/05/2019  
11/05/2019

INTELLECTUAL PROPERTY INDIA  
PATENT CERTIFICATE

SL No : 01111583

भारत सरकार  
GOVERNMENT OF INDIA  
THE PATENT OFFICE

पेटेंट सं. / Patent No. : 308928  
अर्ज सं. / Application No. : 900/DEL/2009  
बहाल करने की तिथि / Date of Filing : 01/05/2009  
पेटेंट / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि निम्नलिखित आविष्कार में प्रकटित "METHOD FOR PREPARATION OF CATALYST, ITS ACTIVITY AND METHOD FOR TREATMENT OF TEXTILE WASTEWATER" नामक आविष्कार के लिए पेटेंट अर्जित किया गया है, जिसके अंतर्गत आविष्कार 1st day of May 2009 से बीस वर्ष की अवधि के लिए पेटेंट अर्जित किया गया है।  
It is hereby certified that a patent has been granted to the patentee for an invention entitled "METHOD FOR PREPARATION OF CATALYST, ITS ACTIVITY AND METHOD FOR TREATMENT OF TEXTILE WASTEWATER" as disclosed in the above mentioned application for the term of 20 years from the 1st day of May 2009 in accordance with the provisions of the Patents Act, 1970.

INTELLECTUAL PROPERTY INDIA  
DESIGNS TRADE MARKS  
GEOGRAPHICAL INDICATION

11/05/2019  
11/05/2019

INTELLECTUAL PROPERTY INDIA  
PATENT CERTIFICATE

SL No : 01111595

भारत सरकार  
GOVERNMENT OF INDIA  
THE PATENT OFFICE

पेटेंट सं. / Patent No. : 308947  
अर्ज सं. / Application No. : 898/DEL/2009  
बहाल करने की तिथि / Date of Filing : 01/05/2009  
पेटेंट / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि निम्नलिखित आविष्कार में प्रकटित "PROCESS FOR IMPARTING OR ENHANCING ELECTRICAL CONDUCTIVITY OF POLYMERS WITH SEMICONDUCTOR NANOPARTICLES" नामक आविष्कार के लिए पेटेंट अर्जित किया गया है, जिसके अंतर्गत आविष्कार 1st day of May 2009 से बीस वर्ष की अवधि के लिए पेटेंट अर्जित किया गया है।  
It is hereby certified that a patent has been granted to the patentee for an invention entitled "PROCESS FOR IMPARTING OR ENHANCING ELECTRICAL CONDUCTIVITY OF POLYMERS WITH SEMICONDUCTOR NANOPARTICLES" as disclosed in the above mentioned application for the term of 20 years from the 1st day of May 2009 in accordance with the provisions of the Patents Act, 1970.

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DESIGNS TRADE MARKS  
GEOGRAPHICAL INDICATION

11/05/2019  
11/05/2019

INTELLECTUAL PROPERTY INDIA  
PATENT CERTIFICATE

SL No : 01111837

भारत सरकार  
GOVERNMENT OF INDIA  
THE PATENT OFFICE



पेटेंट सं. / Patent No. : 326533  
अर्ज सं. / Application No. : 921/DEL/2009  
बहाल करने की तिथि / Date of Filing : 05/05/2009  
पेटेंट / Patentee : Amity University

प्रमाणित किया जाता है कि निम्नलिखित आविष्कार में प्रकटित "A HIGHLY FUNCTIONAL SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE" नामक आविष्कार के लिए पेटेंट अर्जित किया गया है, जिसके अंतर्गत आविष्कार 5th day of May 2009 से बीस वर्ष की अवधि के लिए पेटेंट अर्जित किया गया है।  
It is hereby certified that a patent has been granted to the patentee for an invention entitled "A HIGHLY FUNCTIONAL SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE" as disclosed in the above mentioned application for the term of 20 years from the 5th day of May 2009 in accordance with the provisions of the Patents Act, 1970.

INTELLECTUAL PROPERTY INDIA  
DESIGNS TRADE MARKS  
GEOGRAPHICAL INDICATION

11/05/2019  
11/05/2019






 SL No : 011120642



**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
(Rule 74 of The Patents Rules)

पेटेंट नं. / Patent No. : 331196  
 आवेदन नं. / Application No. : 1478DEL2011  
 दाखल करने की तारीख / Date of Filing : 24/05/2011  
 पेटेंती / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंती को उपरोक्त आवेदन में ब्यवस्थित DEVELOPMENT OF REUSABLE TRANSDUCER MATRIX BASED ON NANOSTRUCTURED POLYANILINE AND APPLICATION TO BIOSENSORS नामक आविष्कार के लिए पेटेंट प्रमाणित किया गया है। आवेदन के दाखल होने की तारीख 24th day of May 2011 से बीस वर्ष की अवधि के लिए पेटेंट प्रवृत्त किया जायेगा।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled DEVELOPMENT OF REUSABLE TRANSDUCER MATRIX BASED ON NANOSTRUCTURED POLYANILINE AND APPLICATION TO BIOSENSORS as disclosed in the above mentioned application for the term of 20 years from the 24th day of May 2011 in accordance with the provisions of the Patents Act,1970.

  
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 GEOGRAPHICAL INDICATION


ध्यान दें - इस पेटेंट के अंतर्गत 3 (तीन) वर्षों के लिए आवेदन का प्रथम वर्ष 24th day of May 2011 से बीस वर्षों तक 5 वर्षों के लिए है।  
 Note - The fee for renewal of this patent, if it is to be maintained will fall / has fallen due on 24th day of May 2013 and on the same day in every year thereafter.



 SL No : 011122415



**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
(Rule 74 of The Patents Rules)

पेटेंट नं. / Patent No. : 336082  
 आवेदन नं. / Application No. : 1030DEL2012  
 दाखल करने की तारीख / Date of Filing : 03/04/2012  
 पेटेंती / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंती को उपरोक्त आवेदन में ब्यवस्थित GRAPHENE BASED CHEMICAL SENSOR FOR THE DETECTION OF TOXIC HEAVY METAL COMPLEXES IN DRINKING WATER नामक आविष्कार के लिए पेटेंट प्रमाणित किया गया है। आवेदन के दाखल होने की तारीख 3rd day of April 2012 से बीस वर्षों की अवधि के लिए पेटेंट प्रवृत्त किया जायेगा।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled GRAPHENE BASED CHEMICAL SENSOR FOR THE DETECTION OF TOXIC HEAVY METAL COMPLEXES IN DRINKING WATER as disclosed in the above mentioned application for the term of 20 years from the 3rd day of April 2012 in accordance with the provisions of the Patents Act,1970.

  
**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS  
 GEOGRAPHICAL INDICATION


ध्यान दें - इस पेटेंट के अंतर्गत 3 (तीन) वर्षों के लिए आवेदन का प्रथम वर्ष 3rd day of April 2012 से बीस वर्षों तक 5 वर्षों के लिए है।  
 Note - The fee for renewal of this patent, if it is to be maintained will fall / has fallen due on 3rd day of April 2014 and on the same day in every year thereafter.



 SL No : 011123049



**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
(Rule 74 of The Patents Rules)

पेटेंट नं. / Patent No. : 337967  
 आवेदन नं. / Application No. : 706DEL2009  
 दाखल करने की तारीख / Date of Filing : 16/04/2009  
 पेटेंती / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंती को उपरोक्त आवेदन में ब्यवस्थित "PROLONGED RELEASE MOSQUITO REPELLENT FORMULATIONS" नामक आविष्कार के लिए पेटेंट प्रमाणित किया गया है। आवेदन के दाखल होने की तारीख 15th day of April 2009 से बीस वर्षों की अवधि के लिए पेटेंट प्रवृत्त किया जायेगा।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled "PROLONGED RELEASE MOSQUITO REPELLENT FORMULATIONS" as disclosed in the above mentioned application for the term of 20 years from the 15th day of April 2009 in accordance with the provisions of the Patents Act,1970.

  
**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS  
 GEOGRAPHICAL INDICATION


ध्यान दें - इस पेटेंट के अंतर्गत 3 (तीन) वर्षों के लिए आवेदन का प्रथम वर्ष 15th day of April 2009 से बीस वर्षों तक 5 वर्षों के लिए है।  
 Note - The fee for renewal of this patent, if it is to be maintained will fall / has fallen due on 15th day of April 2011 and on the same day in every year thereafter.



 SL No : 011127580

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
(Rule 74 of The Patents Rules)



पेटेंट नं. / Patent No. : 348092  
 आवेदन नं. / Application No. : 498DEL2009  
 दाखल करने की तारीख / Date of Filing : 16/03/2009  
 पेटेंती / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंती को उपरोक्त आवेदन में ब्यवस्थित "DEVELOPMENT OF HUMIDITY SENSOR USING CROSS LINKING POLYMERS WITH ELECTROLYTES." नामक आविष्कार के लिए पेटेंट प्रमाणित किया गया है। आवेदन के दाखल होने की तारीख 16th day of March 2009 से बीस वर्षों की अवधि के लिए पेटेंट प्रवृत्त किया जायेगा।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled "DEVELOPMENT OF HUMIDITY SENSOR USING CROSS LINKING POLYMERS WITH ELECTROLYTES." as disclosed in the above mentioned application for the term of 20 years from the 16th day of March 2009 in accordance with the provisions of the Patents Act,1970.

  
**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS  
 GEOGRAPHICAL INDICATION

ध्यान दें - इस पेटेंट के अंतर्गत 3 (तीन) वर्षों के लिए आवेदन का प्रथम वर्ष 16th day of March 2009 से बीस वर्षों तक 5 वर्षों के लिए है।  
 Note - The fee for renewal of this patent, if it is to be maintained will fall / has fallen due on 16th day of March 2011 and on the same day in every year thereafter.





 आवधिक संख्या : 011348657  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Under 74 of The Patent Rules)



पेटेंट सं. / Patent No. : 390662  
 आवेदन सं. / Application No. : 328/DEL/2013  
 प्रकाश करने की तिथि / Date of Filing : 07/11/2013  
 पेटेंट / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंट को उपरोक्त आवेदन में प्रकाशित NOVEL SYNTHESIS OF MAGNETIC IRON OXIDE NANOPARTICLES USING CINNAMON LEAF EXTRACT नामक आविष्कार के लिए पेटेंट प्रदान किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled NOVEL SYNTHESIS OF MAGNETIC IRON OXIDE NANOPARTICLES USING CINNAMON LEAF EXTRACT as disclosed in the above mentioned application for the term of 20 years from the 7th day of November 2013 in accordance with the provisions of the Patents Act, 1970.

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

आवेदन सं. / No. : 23/03/2022  
 तिथि / Date of Grant :

नोट : यह पेटेंट 7 नवंबर 2013 को प्रकाशित किया गया था। इस पेटेंट को नवंबर 2013 के 7वें दिनांक को मिला गया है।  
 Note : This patent for renewal of this patent, it is to be maintained till 07th day of November 2013 and on the same day in every year thereafter.



 आवधिक संख्या : 011348616  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Under 74 of The Patent Rules)



पेटेंट सं. / Patent No. : 387183  
 आवेदन सं. / Application No. : 201711016713  
 प्रकाश करने की तिथि / Date of Filing : 12/05/2017  
 पेटेंट / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंट को उपरोक्त आवेदन में प्रकाशित METHOD FOR PREPARATION OF HIGHLY FLUORESCENT, BIODEGRADABLE SULPHUR DOPED GRAPHENE QUANTUM DOTS FROM AFFORDABLE AGRO-INDUSTRIAL BIO-WASTE CANE MOLASSES USING HYDROTHERMAL SYNTHESIS FOR BIOMAGING APPLICATION नामक आविष्कार के लिए पेटेंट प्रदान किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled METHOD FOR PREPARATION OF HIGHLY FLUORESCENT, BIODEGRADABLE AGRO-INDUSTRIAL BIO-WASTE CANE MOLASSES USING HYDROTHERMAL SYNTHESIS FOR BIOMAGING APPLICATION as disclosed in the above mentioned application for the term of 20 years from the 12th day of May 2017 in accordance with the provisions of the Patents Act, 1970.

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

आवेदन सं. / No. : 19/05/2022  
 तिथि / Date of Grant :

नोट : यह पेटेंट 12 मई 2017 को प्रकाशित किया गया था। इस पेटेंट को मई 2017 के 12वें दिनांक को मिला गया है।  
 Note : This patent for renewal of this patent, it is to be maintained till 12th day of May 2017 and on the same day in every year thereafter.



 आवधिक संख्या : 01130942  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Under 74 of The Patent Rules)

पेटेंट सं. / Patent No. : 407580  
 आवेदन सं. / Application No. : 190/DEL/2015  
 प्रकाश करने की तिथि / Date of Filing : 22/01/2015  
 पेटेंट / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंट को उपरोक्त आवेदन में प्रकाशित A RAPID DETECTION AND PHOTOCATALYTIC DEGRADATION OF AMOXICILLIN USING TITANIA THIN FILM नामक आविष्कार के लिए पेटेंट प्रदान किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled A RAPID DETECTION AND PHOTOCATALYTIC DEGRADATION OF AMOXICILLIN USING TITANIA THIN FILM as disclosed in the above mentioned application for the term of 20 years from the 22nd day of January 2015 in accordance with the provisions of the Patents Act, 1970.

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

आवेदन सं. / No. : 28/09/2022  
 तिथि / Date of Grant :

नोट : यह पेटेंट 22 जनवरी 2015 को प्रकाशित किया गया था। इस पेटेंट को जनवरी 2015 के 22वें दिनांक को मिला गया है।  
 Note : This patent for renewal of this patent, it is to be maintained till 22nd day of January 2015 and on the same day in every year thereafter.



 आवधिक संख्या : 011348616  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Under 74 of The Patent Rules)

पेटेंट सं. / Patent No. : 387183  
 आवेदन सं. / Application No. : 201711016713  
 प्रकाश करने की तिथि / Date of Filing : 12/05/2017  
 पेटेंट / Patentee : AMITY UNIVERSITY



प्रमाणित किया जाता है कि पेटेंट को उपरोक्त आवेदन में प्रकाशित METHOD FOR PREPARATION OF HIGHLY FLUORESCENT, BIODEGRADABLE SULPHUR DOPED GRAPHENE QUANTUM DOTS FROM AFFORDABLE AGRO-INDUSTRIAL BIO-WASTE CANE MOLASSES USING HYDROTHERMAL SYNTHESIS FOR BIOMAGING APPLICATION नामक आविष्कार के लिए पेटेंट प्रदान किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled METHOD FOR PREPARATION OF HIGHLY FLUORESCENT, BIODEGRADABLE AGRO-INDUSTRIAL BIO-WASTE CANE MOLASSES USING HYDROTHERMAL SYNTHESIS FOR BIOMAGING APPLICATION as disclosed in the above mentioned application for the term of 20 years from the 12th day of May 2017 in accordance with the provisions of the Patents Act, 1970.

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

आवेदन सं. / No. : 19/05/2022  
 तिथि / Date of Grant :

नोट : यह पेटेंट 12 मई 2017 को प्रकाशित किया गया था। इस पेटेंट को मई 2017 के 12वें दिनांक को मिला गया है।  
 Note : This patent for renewal of this patent, it is to be maintained till 12th day of May 2017 and on the same day in every year thereafter.






 81155674  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Sub. 74 of The Patents Rules)

पेटेंट नं. / Patent No. : 419614  
 आवेदन नं. / Application No. : 3104DEL/2013  
 फाइल करने की तिथि / Date of Filing : 18/10/2013  
 पेटेंट / Patentee : AMITY UNIVERSITY



प्रमाणित किया जाता है कि पेटेंट की, आवेदन करने में ब्यक्तगीत GREEN SYNTHESIS OF SILVER NANOPARTICLES USING ETHANOLIC EXTRACT OF ZANTHOXYLLUM ALATUM LEAVES नाम आवेदन के लिए पेटेंट प्रमाणित, 1970 के उपरोक्त से अलग नाम अधिनियम 2013 के उपरोक्त से की जा रही है और कि पेटेंट अलग किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled GREEN SYNTHESIS OF SILVER NANOPARTICLES USING ETHANOLIC EXTRACT OF ZANTHOXYLLUM ALATUM LEAVES as disclosed in the above mentioned application for the term of 20 years from the 18<sup>th</sup> day of October 2013 in accordance with the provisions of the Patents Act,1970.


**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

प्रदान की तिथि : 30/01/2023  
 Date of Grant :

प्रमुख अधिकारी : अमित कुमार  
 Commissioner of Patent

Note: - The term for renewal of this patent, if it is to be maintained will fall / have fallen due on 18<sup>th</sup> day of October 2033 and on the same day in every year thereafter.




 811556210  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Sub. 74 of The Patents Rules)

पेटेंट नं. / Patent No. : 420170  
 आवेदन नं. / Application No. : 201811021006  
 फाइल करने की तिथि / Date of Filing : 12/06/2018  
 पेटेंट / Patentee : AMITY UNIVERSITY



प्रमाणित किया जाता है कि पेटेंट की, आवेदन करने में ब्यक्तगीत N-DOPED CARBON NANO SHEET BASED HYDROGEL COMPOSITE FOR WOUND HEALING नाम आवेदन के लिए, पेटेंट प्रमाणित, 1970 के उपरोक्त से अलग नाम अधिनियम 2013 के उपरोक्त से की जा रही है और कि पेटेंट अलग किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled N-DOPED CARBON NANO SHEET BASED HYDROGEL COMPOSITE FOR WOUND HEALING as disclosed in the above mentioned application for the term of 20 years from the 12<sup>th</sup> day of June 2018 in accordance with the provisions of the Patents Act,1970.


**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

प्रदान की तिथि : 02/02/2023  
 Date of Grant :

प्रमुख अधिकारी : अमित कुमार  
 Commissioner of Patent

Note: - The term for renewal of this patent, if it is to be maintained will fall / have fallen due on 12<sup>th</sup> day of June 2038 and on the same day in every year thereafter.




 811556710  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Sub. 74 of The Patents Rules)

पेटेंट नं. / Patent No. : 421708  
 आवेदन नं. / Application No. : 2374DEL/2013  
 फाइल करने की तिथि / Date of Filing : 08/08/2013  
 पेटेंट / Patentee : AMITY UNIVERSITY



प्रमाणित किया जाता है कि पेटेंट की, आवेदन करने में ब्यक्तगीत A NOVEL HAND HELD MICRO-ELECTRODE SENSOR FOR DETECTING FUEL ADULTERATION BASED ON MICRO-FLUIDIC PLATFORM नाम आवेदन के लिए, पेटेंट प्रमाणित, 1970 के उपरोक्त से अलग नाम अधिनियम 2013 के उपरोक्त से की जा रही है और कि पेटेंट अलग किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled A NOVEL HAND HELD MICRO-ELECTRODE SENSOR FOR DETECTING FUEL ADULTERATION BASED ON MICRO-FLUIDIC PLATFORM as disclosed in the above mentioned application for the term of 20 years from the 8<sup>th</sup> day of August 2013 in accordance with the provisions of the Patents Act,1970.


**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

प्रदान की तिथि : 15/02/2023  
 Date of Grant :

प्रमुख अधिकारी : अमित कुमार  
 Commissioner of Patent

Note: - The term for renewal of this patent, if it is to be maintained will fall / have fallen due on 8<sup>th</sup> day of August 2033 and on the same day in every year thereafter.



 811556710  
 SL No :

**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

**भारत सरकार**  
**GOVERNMENT OF INDIA**  
**पेटेंट कार्यालय**  
**THE PATENT OFFICE**  
**पेटेंट प्रमाणपत्र**  
**PATENT CERTIFICATE**  
 (Sub. 74 of The Patents Rules)

पेटेंट नं. / Patent No. : 421708  
 आवेदन नं. / Application No. : 2374DEL/2013  
 फाइल करने की तिथि / Date of Filing : 08/08/2013  
 पेटेंट / Patentee : AMITY UNIVERSITY

प्रमाणित किया जाता है कि पेटेंट की, आवेदन करने में ब्यक्तगीत A NOVEL HAND HELD MICRO-ELECTRODE SENSOR FOR DETECTING FUEL ADULTERATION BASED ON MICRO-FLUIDIC PLATFORM नाम आवेदन के लिए, पेटेंट प्रमाणित, 1970 के उपरोक्त से अलग नाम अधिनियम 2013 के उपरोक्त से की जा रही है और कि पेटेंट अलग किया गया है।  
 It is hereby certified that a patent has been granted to the patentee for an invention entitled A NOVEL HAND HELD MICRO-ELECTRODE SENSOR FOR DETECTING FUEL ADULTERATION BASED ON MICRO-FLUIDIC PLATFORM as disclosed in the above mentioned application for the term of 20 years from the 8<sup>th</sup> day of August 2013 in accordance with the provisions of the Patents Act,1970.


**INTELLECTUAL PROPERTY INDIA**  
 PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

प्रदान की तिथि : 15/02/2023  
 Date of Grant :

प्रमुख अधिकारी : अमित कुमार  
 Commissioner of Patent

Note: - The term for renewal of this patent, if it is to be maintained will fall / have fallen due on 8<sup>th</sup> day of August 2033 and on the same day in every year thereafter.