

MALAVIYA NATIONAL INSTITUTE OF TECCHNOLOGY JAIPUR

Office of Dean Research & Consultancy

IP & TT Cell

IPRs (Patents/Copyrights) filed Technologies Available for Licensing

The list of the patents/copyrights, filed with the name of the inventors and the status is given below.

MNIT Jaipur encourages interested parties to contact for technologies licensing: -

S. No	Title of the IPRs	Inventor(s)	Patent No. (Application number)	Status	Applicant
1.	Natural Ventilation System for Building through Solar and/or Wind Energy	Dr.J.Mathur Dr. Sanjay Mathur	1074/DEL/2008 dtd 25/04/2008	Patent Granted	MNIT Jaipur
2.	An improved Straight Vegetable Oil (SVO) Fueling System for CI Engine Operated Two-wheeler	Dr. Dilip Sharma, Kamal Kishore Khatri Prof. S.L. Soni	2178/DEL/2009 dtd 21/10/2009	Patent Granted	MNIT Jaipur
3.	Pneumatic twisle	Prof. Agarwal, gopal Deshpande, S. S.	1519/DEL/2010 dtd 29/06/2010	Patent Granted	MNIT Jaipur
4.	A device for Improving Fuel Efficiency of a Four Stroke Spark Ignition (SI) Engine	Dr.Dilip Sharma, Hari Narayan Prajapati	826/DEL/2010 Dtd. 05.04.2010	Patent Granted	MNIT Jaipur
5.	A base material and a system for finishing work-piece(s)	Dr. Harlal Singh Mali	2369/DEL/2010 dtd 01/10/2010	Patent Granted	Individual (s)
6.	A mobile equipment for a user unable to use his hand	Dr. Dilip Sharma, Prof. S.L. Soni, Ashutosh Kaushik, Abhishek Modi, Jyotiraditya Meena Abhishek Agarwal	2783/DEL/2010 dtd 23/11/2010	Reply Filed. Application in amended examination	MNIT Jaipur
7.	Pliers with Gripping Jaw Adjustment Cam	Dr.Dilip Sharma, Prof. S.L. Soni Hari Narayan P.	1707/DEL/2012 dtd 04/06/2012	Patent Granted	MNIT Jaipur
8.	Chilled fluid operated radiant panels in furniture for personalized environmental control	Mathur, Jyotirmay, Agrawal, Navdeep, Geel, Prashant Shekhar, Joshi, Lalit, Gupta, Manoj Kumar	922/DEL/2015 dtd 31/03/2015	Patent Granted	MNIT Jaipur

9.	Black pearl-mouse and keyboard for sid children	Dr. Rajesh Kumar Anupam Kumar	6146/2010-CO/SW	Copyright Granted	MNIT Jaipur
10.	Railway maintenance monitoring system	Om Prakash Varma Anupam Kumar Dr. Rajesh Kumar Saatvik Shah Sanjay Thakur Vaibhav Jain	1098/DEL/2014 dtd 22/04/2014	Application Abandoned U/S 21(1)	MNIT Jaipur,NE F Railway
11.	Shelter for high altitude regions	Choudhary, Aditya Kumar, Rohitash Mustafa, Syed Basharat NAZIR, Sarfraz Srivastava, Ravi Bihari Hota, Sunil Kumar	3523/DEL/2014 dtd 03/12/2014	Reply filed.Applica tion in Amended examination	DG, DRDO
12.	Marble dust reinforced copper alloy composite fabrication	Ms. Swati Gangwar Prof. I.K.Bhat, Dr Amar Patnaik	1319/DEL/2015 dtd 12/05/2015	Reply filed. Application in Amended examination	Individual (s)
13.	Fabrication of Polymeric Dental Composites by Adding New Filler Gypsum	Mr. Shiv Ranjan Kumar Dr Amar Patnaik Prof. I.K.Bhat	1321/DEL/2015 dtd 12/05/2015	Reply filed. Application in amended examination	Individual (s)
14.	Granite powder reinforced hydraulic turbine blades	Mr. VikashGautam Prof. I.K. Bhat, Dr Amar Patnaik	1320/DEL/2015 dtd 12/05/2015	Abandoned 06.03.2020	Individual (s)
15.	Rail-alert	Om Prakash Varma Anupam Kumar Dr. Rajesh Kumar Saatvik Shah Sanjay Thakur Vaibhav Jain	1163/KOL/2015 dtd 17/11/2015	FER 27.08.2020	MNIT Jaipur
16.	A system for robotic inspection of overhead transmission line	Dr. Rajesh Kumar Akash Shah Akshay Kumar Anshul Mittal Maitreyee Ashvin Mehra Mihika Gupta Rajat Kumar Arya Sharad Garg Vishakha Tyagi	2036/DEL/2015 dtd 05/07/2015	Deemed to be Withdrawn U/S 11B(4)	MNIT Jaipur
17.	Intelligent energy monitoring system	RaghavTotla, Dr. Nikhil Gupta, Dr. Anil Swarnkar, Prof. K. R. Niazi	2405/DEL/2015 dtd 05/08/2015	FER issued. Reply not filed	MNIT JAIPUR
18.	Erosion wear resistant polymer composite	Mr. M. J. Pawar Dr. Amar Patnaik Ravindra Nagar	1322/DEL/2015 dtd 12/05/2015	Application Abandoned U/S 21(1)	Individual (s)

	laminare filled with granite powder waste				
19.	Portable refrigerant charge monitoring device	DR.Jyotirmay Mathur Ujjwal Singh Rao	3076/DEL/2015 dtd 28/09/2015	FER-30.06.2020	Individual (s)
20.	Intelligent energy management system	Rajesh Kumar BP Singh Sanjay K Thakur Anirudha Kumar SharadGarg	2407/DEL/2015 dtd 06/08/2015	Deemed to be Withdrawn U/S 11B(4)	MNIT Jaipur
21.	Development and Characterization of Self-Healing and Antibacterial Dental Material	Prof. I.K. Bhat, Dr. Amar Patnaik, Mr. Shiv Ranjan Kumar	201611002648 dtd 25/01/2016	Application Awaiting Examination	Individual (s)
22.	Slurry erosion wear assessment of marble dust powder reinforced aluminium alloy composites hydraulic turbine blade	Prof. I.K. Bhat, Dr. Amar Patnaik, Mr. Vikash Gautam	201611002651 dtd 25/01/2016	Reply filed. Application in amended examination	Individual (s)
23.	Dry sliding wear assessment of nickel metal powder reinforced aluminium alloy composites for gear applications	Dr. Amar Patnaik, Prof. I.K. Bhat, Mr. Ashiwani Kumar	201611002649 dtd 25/01/2016	Reply filed. Application in amended examination	Individual (s)
24.	Chiller selection optimization for energy efficiency	Dr. Jyotirmay Mathur Vishal Garg VenkataSai Nikhil Aviruch Bhatia	201611001077 dtd 12/01/2016	FER-01.04.2020	Individual (s)
25.	Design of a system for finishing complicated workpieces using abrasive laden base material	Dr. Harlal Singh Mali Jaikishan Sambharia, Jitender Kumar	201611008902 dtd 15/03/2016	Reply filed. Application in amended examination	Individual (s)
26.	Anti-theft petrol tap for two wheelers	Prof. Dilip Sharma, Mr. Ashok Kumar Sharma	201611015178 dtd 02/05/2016	Reply filed. Application in amended examination	Individual (s)
27.	Ortho- daer: a comprehensive system for osteoarthritis detection, analysis and rehabilitation based on efficient semg signals	Dr. Rajesh Kumar Sarthak Jain Akshay Kumar Ayush Jhalani Devang Darode	201611015179 dtd 02/05/2016	FER,issued, Reply not filed	Individual (s)

28.	Intelli-island: a smart preemptive islanding detection and mode change triggering logic for grid-connected solar pv inverters	Dr. Rajesh Kumar Shashank Vyas	201611015180 dtd 02/05/2016	Application Examined (Fer Issued)	Individual (s)
29.	E-bike electrically powered multi-utility bicycle	Dr. Dinesh Kumar Dr. Rajesh Kumar Mr. Devang Darode Mr. Mitesh Rajput Mr. Mandeep Singh Kapoor	201611015177 dtd 02/05/2016	FER 30.06.2020	Individual (s)
30.	Drunkard driving preventive System (ddrips)	Dr. Dinesh Kumar Dr. Rajesh Kumar Karsh Tharyani Maharshi Kant Mishra Ansh Kathpalia	201611027413 dtd 11/08/2016	Application Examined (Fer Issued)	Individual (s)
31.	Multi-purpose convertible pram cum backpack	Dr. Harlal S Mali Rakesh Jain, Ankur Kumar, Elvis Sajan, Sabyasachi Ghosh, Shubham Maheshwari	201611027414 dtd 11/08/2016	Application Abandoned U/S 21(1)	Individual (s)
32.	EDM (electro discharge machining) assisted centreless grinding machine for grinding lesser stiff cylindrical components	Dr. Harlal singh mali Dr. APS rathore Mahendra singh Shekhawat Arvind Rathore Sagar Karthik	201611027415 dtd 11/08/2016	Reply filed. Application in amended examination	Individual (s)
33.	Smart stone cutters based on direct use of electromagnetic forces and intelligent electronics circuitry	Dr. Harlal S Mali, Bhargav Pathri, Sandeep, Manish, Ankit, Rohit	201611027416 dtd 11/08/2016	Application referred u/s 12 for examination	Individual (s)
34.	A method of recycling kota-stone waste as aggregate in bituminous mixes	Dr. Pawan Kalla Aditya Rana Mohit Sharma Ravindra Nagar Inder Krishnan Bhat	201611027417 dtd 11/08/2016	Application Awaiting Examination	Individual (s)
35.	Personalized LPG cylinder handling system for domestic delivery Person	Dr. Harlal Singh Mali Mr. Praveen Siyag Prof. Dr. S.S Dhami	201711004209 dtd 06/02/2017	Application Awaiting Examination	Individual (s)
36.	Production of fine grained ultra-high hardness steel by powder metallurgy	Ms. Priyanka Sharma Prof. M.K Banerjee	201711004203 dtd 06/02/2017	Awaiting Request for examination	Individual (s)

37.	A metal matrix nanocomposite (conducting magnet) and process of synthesis of nanocomposite by high energy ball milling	Mr. Akshay Kumar Prof. M.K Banerjee	201711004204 dtd 06/02/2017	Awaiting Request for examination	Individual (s)
38.	Chaal: the smart gait analyzer	Chandra Prakash Dr. Rajesh Kumar Dr. Namita Mittal	201711014157 dtd 21/04/2017	Awaiting Request for examination	Individual (s)
39.	Preparation of copper nano powder by mechanically activated cementation	Dr. P R Soni Mr. Vishal Gupta, Mr. Ankit Goyal	201711014160 dtd 21/04/2017	Awaiting Request for examination	Individual (s)
40.	Biofeed back through electronic goniometer	Dr. Rajesh Kumar Alok Agrawal, Anoop Honnekeri Nagraj, Rohit Saxena	201711014156 dtd 21/04/2017	Awaiting Request for examination	Individual (s)
41.	An improved self-clean squat toilet pan	Dr. A. B. Gupta Sunil Kumar Meena Dr. Urmila Brighu	201711025481 dtd 18/07/2017	Application Awaiting Examination	Individual (s)
42.	Squeegee hand tool for textile screen printing operations	Dr. M. L. Meena G. S. Dangayach A. Bhardwaj	201711031643 dtd 07/09/2017	Awaiting Request for examination	Individual (s)
43.	Two-wheeler vehicle to prevent back ache for rider	Keshav Gupta Zuber Nizami Kishanlal Suthar Dr. Ghanshyam Das Agrawal	201811002382 dtd 19/01/2018	Awaiting Request for examination	Individual (s)
44.	Nanofluid based flat plate solar energy collector and method thereof	Dr. Ghanshyam Das Agrawal, Dr.Hemant Kumar Gupta	201811005867 dtd 15/02/2018 (09/03/2018)	Reply Filed. Application in amended examination	Individual (s)
45.	A method for detecting coliforms in a water and kit thereof	Dr. A. B. Gupta Dr. Urmila Brighu Ashish Tambi	201811009257 dtd 13/03/2018	Reply filed. Application in amended examination	Individual (s)
46.	System of thermal storage for solar to electrical energy conversion	Dr. Mohammad Israr, Shri Radhey Shyam Meena, Dr. Dheeraj Kumar Pal Waliya, Dr. Shivlal, Dr. Neeraj Garg, Dr. Rohit Bhakar	201821020049 dtd 29/05/2018	Awaiting Request for examination	Individual (s)
47.	Ultra-low transconductance amplifier using carbon	Shailendra Kumar, Mohd. Samar Ansari, Amit Mahesh Joshi	201811024700 dtd 03/07/2018	Reply filed. Application	Individual (s)

	nanotube field effect transistors			in amended examination	
48.	Recycling fine bone china product waste as supplementary cementitious material/pozzolana	Mr. Salman Siddique Dr. Sandeep Shrivastava Dr. Sandeep Chudhary	201811028533 dtd 30/07/2018	Awaiting Request for examination	Individual (s)
49.	Development of remedial orthosis for ctew (clubfoot) patient through five corrective motions	Dr.Harlal Singh Mali Hemraj Bairwa Jitendra Jaisawal Dhiraj Kumar Rouniyar Abinash Kumar Gupta	201811028509 dtd 30/07/2018	Awaiting Request for examination	Individual (s)
50.	Synthesis of direct bandgap nano-crystalline silicon powder by high energy ball milling	Dr. P R Soni, Ankit Goyal	201811028525 dtd 30/07/2018	Awaiting Request for examination	Individual (s)
51.	Fly ash based geopolymer concrete incorporating rubber tire fibres as partial replacement of natural sand thereof useful for construction and infrastructure industries	Dr. Salmabanu Luhar Dr. Sandeep Chudhary Dr. Urmil Dave Mr. Ismail Luhar	201811028519 dtd 30/07/2018	Awaiting Request for examination	Individual (s)
52.	System and method for solid oxide fuel cell alternative power sources for dynamic voltage restorer	Dr. Sunil Kumar Gupta Dr HP Tiwari Dr Manoj Gupta	201911005170 dtd 09/02/2019 (22/02/2019)	Awaiting Request for examination	Individual (s)
53.	System and method for ultra-capacitor-based energy storage system in dynamic voltage restorer	Dr. Sunil Kumar Gupta Dr HP Tiwari Dr Manoj Gupta	201911005171 dtd 09/02/2019 (22/02/2019)	Awaiting Request for examination	Individual (s)
54.	An improved tillage cultivator	N R N V Gowripathi Rao, Prof. Chaudhary, Himanshu; Prof.Sharma, Ajay Kumar	201911019499 dtd 17/05/2019 (20/08/2021)	Awaiting Request for examination	MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
55.	Full-bridge dc-dc converter with voltage spikes suppression for EV battery charging	Dr. Arun K Verma, Manaswai, Pavan Tomar, N Sandeep, Udaykumar RY,	202011009519 dtd 05/03/2020 (04/09/2020)	Awaiting Request for examination	MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY (MNIT)

		Kirti Mathuria, Sangeeta Nehra			
56.	A device for non-invasive blood and serum glucose-level monitoring and control	Dr. Amit Joshi, Mr. Prateek Jain, Prof. Saraju P. Mohanty	202011027041 dtd (25/06/2020) (07/08/2020)	Awaiting Request for examination	Malaviya National Institute of Technology
57.	Sustainable cement concrete composite	Dr. Blessen Skariah Thomas, Dr. Ramesh Chandra Gupta, Dr. Jian Yang, Dr. Priyansha Mehra, Er. Prarthitha Basu, Dr. Vasudev R., Er. Jerison Scariah James	202011030331 dtd (16/07/2020)	FER issued; Reply not filed	Individual (s)
58.	High strength cement concrete Incorporating discarded tire rubber ash as partial replacement for binder ensuring sustainability in construction industry	Dr. Blessen Skariah Thomas, Dr. Jian Yang, Dr. Ramesh Chandra Gupta, Satish Kumar	2020102116 dtd 30/09/2020	Granted (Australian Patent)	Individual (s)
59.	Artificial Intelligence Enabled Health Monitoring System (AIHMS) for Grid Connected Solar Inverter	Ahteshamul Haque, Rajesh Kumar, K V S Bharath, M Ali Khan	202011038582 Dtd 07/09/2020	Published	Individual (s)
60.	Orthosis for Clubfoot (CTEV) Correction and Maintenance Based on Ponsiti Method	Dr. Harlal Singh Mali	202111003245 dt.23/01/2021	Patent Granted	Start-up of MNIT Jaipur
61.	Two Stage Solid Gas Reactor for Economic Reduction of Mill Scale and Method Thereof	Prof. Udaykumar R. Yaragatti, Prof. MK Banerjee, Dr. Amar Patnaik, Prof. Vinod Kumar, Mr. Dorai Swami V	202111010461 Dtd. 12/03/2021	Application Awaiting Examination	MNIT Jaipur & MoS, New Delhi
62.	A method and system for detecting fault and cause of fault in battery	Kapil Pareek Mayank Vyas	202111009590 dtd 08 Mar 2021 (19/03/2021)	Application Awaiting Examination	MNIT Jaipur
63.	Twin-Flow Modular Micro-Channel Heat Sink and Fabrication Process Thereof.	Harlal Singh Mali Siddhartha K Singh	202111029111 dtd 29.06.2021	Application Awaiting Examination	MNIT Jaipur
64.	A Sponge Iron Slag Particulate Filled Fiber Reinforced Polymer	Ankush Sharma, Mahavir Choudhary Dr. Amar Patnaik,	202111035112 A Dtd. 28.08.2021	Awaiting Request for Examination	Start-up of MNIT Jaipur

	Composite Material and Method Thereof	Prof. Jyotirmay Mathur			
65.	A SYSTEM AND METHOD FOR MONITORING BATTERY HEALTH USING IMAGE ANALYSIS THROUGH DEEP-LEARNING	Kapil Pareek, Kartik Kumar	202111040548 Dtd 07-09-2021	Awaiting Complete Specification	MNIT Jaipur

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