

LIST OF PATENT GRANT TILL DATE

Sl. No.	Publication Number	Title	Inventor	Department	Published	Publication Date	ISM/Individual
1	<u>IN205322B</u>	AN INDUCTION HEATING DEVICE FOR HEATING FLUID IN A NON-METALIC VESSEL OR PIPELINE	Kumar, Sadhu Pradip Chkraborty, R. N. Choudhury, S. P.	Electrical Engineering	Grant	30-Mar-07	IIT(ISM)
2	<u>IN208969B</u>	A FLYASH BASED COATING COMPOSITION AND A METHOD OF PREPARATION THEREOF	Sarkar, Ashis Mukherjee, Arup	Applied Chemistry	Grant	17-Aug-07	IIT(ISM)
3	<u>IN216361B</u>	A COOKING APPARATUS USING HIGH FREQUENCY INDUCTION HEATING	Sadhu, Pradip Kumar Chakraborty, R. N. Chowdhury, S. P.	Electrical Engineering	Grant	14-Mar-08	IIT(ISM)
4	<u>IN244527B</u>	AN IMPROVED HIGH FREQUENCY INVERTER CIRCUIT ARRANGEMENT	Sadhu, Pradip Kumar Chakrabarti, R. N. Chowdhury, S. P.	Electrical Engineering	Grant	10-Dec-10	IIT(ISM)
5	<u>IN244784B</u>	A DEVICE FOR GOAF EDGE SUPPORT TO PROTECT ROOF OF MINES	Singh, Upendra Kumar Das, Gupta Ashit, Kumar	Applied Geophysics	Grant	24-Dec-10	IIT(ISM)
6	<u>IN279552B</u>	AN ADJUSTABLE SHEARER DRUM FOR A DRUM SHEARER.	SIB, MUKHERJEE NATH	Long Wall, Mining	Grant	27-Jan-17	IIT(ISM)
7	<u>IN201000887I2</u>	A METHOD AND DEVICE FOR CONCENTRATION OF SOLAR RADIATION AND OBTAINING CONCENTRATED PLANE BEAM	JAIN, PANKAJ KUMAR	Fuel & Mineral Engineering	Grant	05.03.2018	IIT(ISM)

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Sl. No	Publication Number	Title	Inventor	Department	Published	Publication Date	Applicant (IIT(ISM) /Individual)
1	IN200400576I2	DEVELOPMENT OF EFFECTIVE AND ENVIRONMENT FRIENDLY PLANT BASED CORROSION INHIBITORS FOR PROTECTION OF STEEL CASING AND OTHER EQUIPMENT USED IN ACIDIC ENVIRONMENT	Tarkeshwar, Kumar Vishwanatham, Sunkari Emranuzzaman	Petroleum Engineering	Published	17-Nov-06	IIT(ISM)
2	IN201401081I2	A HIGH FREQUENCY FULL BRIDGE SERIES RESONANT INVERTER WITH AC INPUT SOURCE	PRADIP KUMAR, SADHU DEBABRATA, ROY NITAI, PAL ARIJIT, BARAL	Electrical Engineering	Published	05-Dec-14	IIT(ISM)
3	IN201401052I2	A SYSTEM FOR INDUCTION HEATED STERILIZATION OF SURGICAL INSTRUMENTS AND A METHOD FOR THE SAME	PRADIP KUMAR SADHU AGAMANI CHAKRABORTY NITAI PAL ATANU BANDYOPADHYAY	Electrical Engineering	Published	05-Dec-14	IIT(ISM)

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4	IN201500025I2	A HIGH FREQUENCY HYBRID RESONANT INVERTER WITH AC INPUT SOURCE	PRADIP, KUMAR SADHU ANANYO, BHATTACHARYA VIVEKANANDA, MUKHERJEE NITAI, PAL	Electrical Engineering	Published	13-Feb-15	IIT(ISM)
5	IN201401321I2	A HIGH FREQUENCY MODIFIED HALF BRIDGE RESONANT INVERTER WITH AC INPUT SOURCE	SADHU, PRADIP KUMAR PAL, PALASH PAL, NITAI BARAL, ARIJIT	Electrical Engineering	Published	13-Feb-15	IIT(ISM)
6	IN201500305I2	A PRACTICAL APPROACH FOR COAL FIRE PREVENTION AND ITS PREDICTION INTEGRATING MACHINE LEARNING AND STATISTICS IN OPENCAST MINES WORKING OVER DEVELOPED PILLARS	SINHA, SATISH KUMAR PANIGRAHI, DC BANKA, HAIDER	PCE	Published	17-Apr-15	IIT(ISM)

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7	IN201500682I2	PHOTOVOLTAIC-THERMOELECTRIC-PHOTOVOLTAIC (PV-TE-PV) MULTILAYER DEVICE FOR ENHANCING SOLAR ELECTRIC POWER GENERATION WITH REDUCED AREA REQUIREMENT	Chakraborty, Suprava Sadhu, Pradip Kumar Goswami, Utpal	Electrical Engineering	Published	10-Jul-15	IIT(ISM)
8	IN201500445I2	A PACEMAKER BATTERY RECHARGER FOR ENHANCING THE SERVICE LIFE	Sadhu, Pradip Kumar Halder, Animesh Pal, Nitai Ganguly, Ankur Bhowmik, Prabir Sadhu, Moumita	Electrical Engineering	Published	10-Jul-15	IIT(ISM)
9	IN201501221I2	AN INDUCTION CURING SYSTEM FOR ROOF TREATMENT WITH ASPHALT CONCRETE TO CURE A CRACK ON ROOF AND A METHOD FOR THE SAME	Sadhu, Pradip Kumar Neogi, Kaushik Banerjee, Atanu Panda, G. Pal, N. Jana, K.C	Electrical Engineering	Published	22-Jan-16	IIT(ISM)
10	IN201631000136A	A HIGH FREQUENCY FLY-BACK MULTIZONE RESONANT INVERTER WITH AC INPUT SOURCE FOR MULTI-AREA INDUCTION HEATING	Sadhu, Pradip Kumar Bhaumik, Kallol Datta, Avik Pal, Palash Chakraborty, Avijit Nag, Titas Kumar	Electrical Engineering	Published	29-Jan-16	IIT(ISM)

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11	IN201400931I2	AMPHOTERIC XANTHAN GUN/SIO2 HYBRID NANOCOMPOSITE (AMP. XG/SIO2); DEVELOPMENT AND APPLICATION OF A NOVEL ADSORBENT FOR REMOVAL OF CONGO RED DYE (CR DYE) FROM AQUEOUS SOLUTION	PAL, SAGAR GHORAI, SOUMITA SARKAR, A	Applied Chemistry	Published	18-Mar-16	IIT(ISM)
12	IN201401007I2	EFFECTIVENESS OF SORBITON MONO OLEATE AS POUR POINT DEPRESSANT ON INDIA WAXY CRUDE OILS	SHARMA, V P MAHTO, VIKAS SHARMA, SHIVANJALI	Petroleum Engineering	Published	01-Apr-16	IIT(ISM)
14	IN201500005I2	SYNTHESIS AND CHARACTERIZATION OF ACRYLATE ESTERS AS POUR POINT DEPRESSANTS IN INDIAN WAXY CRUDE OILS	SHARMA, V.P. VIKAS, MAHTO SHIVANJALI, SHARMA	Petroleum Engineering	Published	26-Aug-16	IIT(ISM)
15	IN201631036291A	BREATHE ANALYSIS DEVICE FOR HEALTH ASSESSMENT	BAGCHI, SURAJIT MONDAL, SANJAY SENGUPTA, SUBHABRATA	Electrical Engineering	Published	04-Nov-16	IIT(ISM)

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16	IN201631035117A	TRIPLE SIGNALING MODE CARBON DOTS- BASED BIODEGRADABLE MOLECULARLY IMPRINTED POLYMER AS MULTI-TASKING VISUAL SENSOR FOR RAPID AND ON-SITE MONITORING OF SILVER ION	MADHURI, RASHMI PATRA, SANTANU CHOUDHARY, RAKSHA ROY, EKTA SHARMA, PRASHANT KUMAR	Applied Chemistry	Published	04-Nov-16	IIT(ISM)
17	201631037159	A PROCESS FOR THE PREPARATION OF BIO- COAGULANT USING MORINGA OLEIFERA SEED BIOMASS FOR THE REMOVAL OF FINE PARTICLES FROM COAL WASHERY EFFLUENT	Dr. S. R. Samadder, Gaurav Vilas Kapse	Environmental Science & Engineering	Published	05-Apr-18	IIT(ISM)
18	201631037148	SELECTIVE FLOCCULATION OF IRON ORE FROM MIXTURE OF INORGANIC GANGUES USING CARBOXYMETHYL AMYLOPECTIN FUNCTIONALIZED WITH POLY (ACRYLIC ACID)	Dr. Sagar Pal, , Amit Kumar Sarkar, Abhay Sharnkar Patra, Prof. N. R. Mandre	Applied Chemistry	Published	05-Apr-18	IIT(ISM)