Information on Patents of CSIR-CIMFR for the period 1st April 2024 to 31st March 2025 Patents Filed in India: 12, Filed in Abroad: 12

i) Patent Filed in India: 2

No	NFNO	Country	Lab	Title	Inventors		Comp. Filing Date	Application No.	Status	Patent No.
1	0068NF2024/IN	IN		VEHICLES TO REDUCE AIR-BORNE DUST	Mandal Prabhat Kumar, Das Arka Jyoti, Tewari Subhashish, Bhattacharjee Rana, Kumar Ranjan, Ghosh Nilabjendu		21-Jun- 2024	202411048167	PP	
2	0145NF2024/IN	IN			Mysore Sridhar Santosh, Afaq Ahmad Khan	19-Jul- 2024		202411055558	PP	

ii) Patent Filed in Abroad: 12

SNo	NFNO	Country	Lab	Title	Inventors	Filing		Application No.		Patent No.
1	0090NF2021/US	US		Enriched Air Blown	PRAKASH DHONDIRAM CHAVAN, SUJAN SAHA, NILESH D DHAIGUDE,		06- Aug-	18/836252	PP	

				Pilot Scale Gasifier	VISHAL CHAUHAN, GAJANAN SAHU, SUDIPTA DATTA, PRADEEP KUMAR SINGH	2024			
2	0090NF2021/AU	AU	CIMFR	Development of Oxygen Enriched Air Blown Pressurized Fluidized Bed Pilot Scale Gasifier	PRAKASH DHONDIRAM CHAVAN, SUJAN SAHA, NILESH D DHAIGUDE, VISHAL CHAUHAN, GAJANAN SAHU, SUDIPTA DATTA, PRADEEP KUMAR SINGH	 07- Aug- 2024	2023214885	PP	
3	0090NF2021/CN	CN	CIMFR	Development of Oxygen Enriched Air Blown Pressurized Fluidized Bed Pilot Scale Gasifier	PRAKASH DHONDIRAM CHAVAN, SUJAN SAHA, NILESH D DHAIGUDE, VISHAL CHAUHAN, GAJANAN SAHU, SUDIPTA DATTA, PRADEEP KUMAR SINGH	 07- Aug- 2024	202380020790.7	PP	
4	0090NF2021/JP	JP	CIMFR	Development of Oxygen Enriched Air Blown Pressurized Fluidized Bed Pilot Scale Gasifier	PRAKASH DHONDIRAM CHAVAN, SUJAN SAHA, NILESH D DHAIGUDE, VISHAL CHAUHAN, GAJANAN SAHU, SUDIPTA DATTA, PRADEEP KUMAR SINGH	 07- Aug- 2024	2024-547006	PP	
5	0090NF2021/ZA	ZA	CIMFR	Development of Oxygen Enriched Air Blown	PRAKASH DHONDIRAM CHAVAN, SUJAN SAHA,	 08- Aug-	2024/06117	PP	

			Pressurized Fluidized Bed Pilot Scale Gasifier	NILESH D DHAIGUDE, VISHAL CHAUHAN, GAJANAN SAHU, SUDIPTA DATTA, PRADEEP KUMAR SINGH	2024			
5	0231NF2021/US	US	EFFICIENT VOLUMETRIC HIGH PRESSURE ADSORPTION ISOTHERM EXPERIMENTAL SET UP	DEBADUTTA MOHANTY, SUJOY CHATTARAJ	 11-Oct- 2024	18/856101	PP	
7	0139NF2020/AU	AU	A THERMOGRAVIMETRIC REACTOR (TGR) TO STUDY WEIGHT CHANGES OF SOLIDS AND A PROCESS THEREOF	Prakash Dhondiram Chavan, Sujan Saha, Gajanan Sahu, Sudipta Datta, Vishal Chauhan, Nilesh Dhananjay Dhaigude, Pradeep Kumar Singh	 31-Oct- 2024	2022456930	PP	
3	0139NF2020/EP	EP	A THERMOGRAVIMETRIC REACTOR (TGR) TO STUDY WEIGHT CHANGES OF SOLIDS AND A PROCESS THEREOF	Prakash Dhondiram Chavan, Sujan Saha, Gajanan Sahu, Sudipta Datta, Vishal Chauhan, Nilesh Dhananjay Dhaigude, Pradeep Kumar Singh	 05- Nov- 2024	22940802.6	PP	
9	0139NF2020/US	US	A THERMOGRAVIMETRIC REACTOR (TGR) TO STUDY WEIGHT CHANGES OF SOLIDS AND A PROCESS THEREOF	Prakash Dhondiram Chavan, Sujan Saha, Gajanan Sahu, Sudipta Datta, Vishal Chauhan, Nilesh Dhananjay Dhaigude, Pradeep Kumar	 06- Nov- 2024	18/863571	PP	

					Singh				
10	0231NF2021/EP	EP	CIMFR	EFFICIENT VOLUMETRIC HIGH PRESSURE ADSORPTION ISOTHERM EXPERIMENTAL SET UP	DEBADUTTA MOHANTY, SUJOY CHATTARAJ	 11- Nov- 2024	23787973.9	PP	
11	0076NF2022/EP	EP	CIMFR	SOLAR-BASED MULTIPURPOSE UTILITY SYSTEM	SWADES KUMAR CHAULYA, GIRENDRA MOHAN PRASAD, SUJIT KUMAR MANDAL, GAUTAM BANERJEE, SURAJIT DEY, VIRENDRA KUMAR, NARESH KUMAR, PREITY, VIJAY KUMAR RAWANI, GOPALJEE SAW	 26- Nov- 2024	23811326.0	PP	
12	0076NF2022/US	US	CIMFR	SOLAR-BASED MULTIPURPOSE UTILITY SYSTEM	SWADES KUMAR CHAULYA, GIRENDRA MOHAN PRASAD, SUJIT KUMAR MANDAL, GAUTAM BANERJEE, SURAJIT DEY, VIRENDRA KUMAR, NARESH KUMAR, PREITY, VIJAY KUMAR RAWANI, GOPALJEE SAW	 26- Nov- 2024	18/869672	PP	

iii) Patent Granted in India: 4

SNo	NFNO	Country	Lab	Title	Inventors	Prov. Filing Date	Comp. Filing Date	Application No.	Status	Grant Date	Patent No.
1	0017NF2016/IN	IN	CIMFR	Local Methane Detector for Hazardous Areas	CHAULYA SWADES KUMAR, PRASAD GIRENDRA MOHAN, SINGH AJAY KUMAR	30- Mar- 2016	06-Mar- 2017	201611011071	IF/2025	04- Apr- 2024	531766
2	0056NF2019/IN	IN	CIMFR	SELF-RETRACTABLE COVER SYSTEM FOR DUMP TRUCKS	Ranjan Kumar, Ashish Narayan, Niraj Kumar, Afzal Hussain, Gautam Banerjee		02-May- 2019	201911017477	IF/2025	16-Apr- 2024	533324
3	0090NF2018/IN	IN	CIMFR	A SYSTEM AND METHOD FOR REAL-TIME MONITORING OF STRATA BEHAVIOR IN UNDERGROUND AND OPENCAST MINE	Ranjan Kumar, Dilip Kumbhakar, Sujit Kumar Mandal, Jitendra Kumar Singh, Sandip Oraon, Gautam Banerjee		15-Nov- 2019	201911046581	IF/2025	31- May- 2024	540403
4	0173NF2019/IN	IN	CIMFR	A COMPOSITION AND METHOD FOR PREPARATION THEREOF FOR SUPPRESSION OF DUST GENERATED IN BLASTING OPERATIONS	Firoj Ali, Braj Mohan Pat Pingua, Pradeep Kumar Singh		03-Jan- 2020	202011000277	IF/2026	31-Jul- 2024	546763

iV) Patent Granted in Abroad: NIL