

**Summary
of
Curriculum Vitae , Publication Records &
Achievements**

of

**Prof. B. C. Meikap
Department of Chemical Engineering
Indian Institute of Technology Kharagpur
Kharagpur-721302
December 2025**

Curriculum Vitae of Dr. B. C. Meikap

1. **Name** : Dr. Bhim Charan Meikap
2. **Father's Name** : Late Amulya Charan Meikap
3. **Date of Birth** : 03-03-1964
4. **Nationality** : Indian
5. **Address for Communication:**

Professor B. C. Meikap

Professor (HAG)

Department of Chemical Engineering

Indian Institute of Technology, Kharagpur

Dist: Midnapur(W)

Kharagpur-721 302 , West Bengal, INDIA

Phone: +91-3222-283958

+91-9474624980/+918637893578

E. Mail: bcmeikap@che.iitkgp.ac.in

bcmeikap@gmail.com

6. Educational qualifications:

Degree / Examination	University / Institution	Year	Specialization	Division / Class	% of Marks/CGPA	Rank in Board / University
Ph. D.	Indian Institute of Technology, Kharagpur	2001	Chemical Engineering	-	-	-
M. Tech.	Indian Institute of Technology, Kharagpur	1992	Chemical Engineering	-	8.10	-
B. Tech.	University of Calcutta	1990	Chemical Engineering	First Class	74.5 %	-
B. Sc. (Hons)	University of Calcutta	1986	Chemistry	First Class	61%	16Th.
H. S. (10+2)	West Bengal Board of H. S. Education	1983	Science	First Div.	65.2%	-
Madhyamik(10)	West Bengal Board of Secondary Education	1981	NA	First Div.	66.7%	-

7. Institute/Departmental Administrative Activities:

- Nodal Officer (Security)
- National Co-ordinator, GIAN, Ministry of Education
- Chairman, Board of Governors, P MEC, Govt. Engineering College
- Professor & Head, Chemical Engineering, IIT Kharagpur
- Chairperson, School of Nano Science and Technology
- Advisor, Institute Guest Houses
- Professor-in-Charge, IIT Kharagpur Kolkata Campus
- Professor-in-Charge, Institute Guest Houses
- Chairman, GATE/JAM 2015
- Vice-Chairman, GATE/JAM 2014
- Vice-Chairman, GATE/JAM 2013
- Member, Joint-M. Tech/PhD Programme, Session 2013-2014, 2014-15, 2015-16
- Prof.-in-charge, Departmental Training & Placement (2011-2014)

➤ Prof.-in-charge, Workshop (Chemical Engg.)

8. Experience (Please indicate the latest first): 28 years teaching and research

SARARY DETAILS of present position: Scale of pay: 1,97,000 AGP: 10,500

University / Organization	Designation	From	To	Total Period	Nature of Experience
Indian Institute of Technology, Kharagpur	Professor – Higher Administrative Grade (HAG)	18-08-2023	Continuing	-	U. G. and P. G. teaching in Chemical Engineering, research and constancy work in Pollution Control, Guiding , B. Tech., M. Tech. and Ph. D. scholars. Administrative work of institute
Indian Institute of Technology, Kharagpur	Professor	02-04-2014	17-08-2023	9 Yrs 4 Months	U. G. and P. G. teaching in Chemical Engineering, research and constancy work in Pollution Control, Guiding , B. Tech., M. Tech. and Ph. D. scholars. Administrative work as Head, Chemical Engg, Chairperson, School of Nano Science & Technology, National Co-Coordinator, GIAN.
Indian Institute of Technology Kharagpur	Associate Professor	29-12-2008	01-04-2014	5 yrs 3 months	U. G. and P. G. teaching , research and constancy work in Pollution Control, Guiding , B. Tech., M. Tech. and Ph. D. scholars. Administrative work as Vice-Chairman, GATE/JAM 2013 & 2014.
Indian Institute of Technology Kharagpur	Assistant Professor	28-04-2004	28-12-2008	4 yrs 5 months	U. G. and P. G. teaching R&D work in Pollution Control, Guiding , B. Tech., M. Tech. and Ph. D. scholars
Asian Institute of Technology (AIT), Bangkok, Thailand	Visiting Assistant Professor	09-01-2004	12-04-2004	3 months	PG teaching in EEM, SERD and training to RUP Faculty of Cambodia
National Institute of Technology , Rourkela	Assistant Professor	13-04-2004	27-04-2004	-	U. G. and P. G. teaching , R&D and constancy work, Administrative work .
Asian Institute of Technology (AIT), Bangkok, Thailand	Visiting Assistant Professor	09-01-2004	12-04-2004	3 months	PG teaching in EEM, SERD and training to RUP Faculty of Cambodia
National Institute of Technology , Rourkela	Assistant Professor	04-09-2002	08-01-2004	1.5 yrs.	U. G. and P. G. teaching for Chemical Engineering, R&D and constancy work, Administrative work .
National Institute of Technology , Rourkela	Sr. Lecturer	04-9-1997	03-09-2002	5 yrs.	U. G. and P. G. teaching for Chemical Engineering, research and constancy work in Pollution Control.
Regional Engineering College Rourkela	Lecturer	04-09-1991	3-9-1997	6 yrs.	U. G. and P. G. teaching for Chemical Engineering and R&D work.

Awards and Academic Recognitions:

- Faculty Excellence Award-2022 of IIT Kharagpur (2022) at Professor Cadre
- Excellence Award by NBCFDC, Ministry of Social Justice, Govt. of India awarded to IIT Khargapur for demonstrating successfully the CSR project. (2019)
- Hetero Drugs Prof. G.S. Laddha CHEMCON Distinguished Speaker Award 2017" of Indian Institute of Chemical Engineers (IChE)(2017)
- National Design Award in Environmental Engineering by Institution of Engineers (India), NDRF (2015)
- Herdillia Award-2015 for "Excellence in Basic Research in Chemical Engineering" by Indian Institute of Chemical Engineers (IChE) (2015).
- Silver Jubilee Alumni Award of Chemical Engineering Association of University of Calcutta(2015)
- Outstanding Contribution in Reviewing in Chemical Engineering Science, Elsevier (2015)

- Best Paper Award, An Investigation into the Influence of Microwave Energy on Iron-Ore Water Slurry Rheology, SAIL (2015)
- UKZN “ School Research Excellence Awards 2011” of School of Engineering, University of Kwazulu-Natal, Durban, South Africa , 2011.
- National Research Foundation (NRF) established rated researcher (C1) , South Africa, 2011.
- Honorary Professor, University of Kwazulu-Natal, South Africa (2011-2013)
- J. W. Nelson “ Best Research Award” of University of Kwazulu-Natal, Durban, South Africa , 2009
- GE, John F Welch Technology R&D Ecomagination Award-2007.
- Artemis Biotech Best Master’s Thesis and Research Award for 2004 for Chemical Engineering/Technology in India.
- Indian Chemical Engineering Congress-2004 (CHEMCON-2004) Best Paper Award.
- Selected for INSA (Indian National Academy of Science) Visiting Fellowship-2004-2005.
- “Visiting Faculty at Asian Institute of Technology, Bangkok” by Government of India, MHRD during January-April, 2004.
- INAE“ Innovation Potential of Projects (Doctoral Level) Award- 2002 “by Indian National Academy of Engineering(INAE) (2002).
- Dr. A. V. Rama Rao “Best Ph. D. Thesis and Research Award in Chemical Engineering/Technology for the Year 2002” by Indian Institute of Chemical Engineers (IChE). (2002).
- “Best Paper Award” by Indian Institute of Public Health Engineers, 1997.
- “National Scholarship” (1987-1990).

10. Patents: 03

- 1)Co-inventor of a Patent on “A Modified Multi-Stage Bubble Column for Versatile , High Efficiency Gas-liquid /Gas-Liquid-Solid Contacting” Patent Granted; **Patent Number: 207112**, in the name of IIT, Kharagpur. Patent granted.
- 2) Co-inventor of a patent: A method for suppressing air core in hydrocyclones and dense medium cyclones: 1130/KOL/06 Dated 26.10.06
- 3) Co-inventor of a patent “ An Efficient, Cost-Effective, Re-useable and Eco-Friendly Algal Biomass Dewatering System and an Accelerated Adsorption Process Thereof :1253/KOL/2012 of 31.10.2012

11. Books and Book Chapters: 06

- Dipa Das and B. C. Meikap Carbon Dioxide (CO₂) Capture from Industrial Flue Gas: A Review , CRC Press Taylor & Francis Group, Air, Gas, and Water Pollution Control Using Industrial and Agricultural Solid Wastes Adsorbents Edited by T K Sen (2017)
- GayatreePatra and B. C. Meikap Dolochar as a Low-Cost Adsorbent for the Removal of Pb(II) from Aqueous Solutions, CRC Press Taylor & Francis Group, Air, Gas, and Water Pollution Control Using Industrial and Agricultural Solid Wastes Adsorbents Edited by T K Sen, (2017)
- B. C. Meikap, A. K. Swar, C.R. Mohanty, J. N. Sahu, Yung-Tse Hung, Air pollution and its control, in Handbook of Environmental and Waste Management, (Editors: Prof. Yung-Tse Hung, Prof. Lawrence K. Wang, Prof. NazihShammas), World Scientific Publishing Co, Singapore (2012).
- B. C. Meikap, A. K. Swar, C.R. Mohanty, J. N. Sahu, Yung-Tse Hung, Chapter: Air pollution problems and control measures in steel making through DRI route, Handbook of Environmental and Waste Management, (Editors: Prof. Yung-Tse Hung, Prof. Lawrence K. Wang, Prof. NazihShammas), World Scientific Publishing Co, Singapore (2012).
- J.N. Sahu, B.C. Meikap, A.V. Patwardhan, Synthesis of Ammonia from Urea for Flue Gas Conditioning, ISBN-NR: 978-3-639-26206-3, VDM Publishing House Ltd., Germany (2010).
- B. Rajmohan , B.C. Meikap Spray-cum-Bubble Column Scrubber for Gaseous Effluents from Industries, ISBN- 978-3-639-29035-6, VDM Verlag Dr. Müller e.K., Germany (2010).
- Energy Storage and Conservation, Springer , Editors: Akhila Kumar Sahu, Bhim Charan Meikap, Vamsi Krishna Kudapa ISBN 978-981-99-2869-9 , ISBN 978-981-99-2870-5 (2023)

12. Research Guidance :

(I) Guidance at doctoral level (24)

(a) Guidance at Doctoral level (Number completed: 24)

Name	Topic	Guidance (Single/joint)
B. Rajmohan	Wet scrubbing of Air Pollutants from Hot Flue Gases in Spray-cum-Bubble Column Scrubber	Sole guidance
Mitali Das	Hydrodynamics Studies of Gas Solid Single and Mixed Particle Systems in a Circulating Fluidized Bed	Jointly with Prof. R. K. Saha
C. R. Mohanty	Abatement of Sulfur Dioxide from Industrial Flue Gases in a Counter-Current Multi-Stage Fluidized Bed Reactor	Sole guidance
J. N. Sahu	In-situ Generation of Ammonia by Hydrolysis of Urea for Flue Gas Conditioning of Thermal Power Plant	Jointly with Prof. A. V. Patwardhan
H. M. Jena	Hydrodynamics of Gas-Liquid-Solid Three Phase Semi-Fluidized Bed Reactor for Removal of Phenol from Coke oven Wastewater	Jointly with Prof. G. K. Roy of NIT Rourkela
Vivek Kumar	Development of Sensor for Air Core and its Role in Performance Characteristics of Hydrocyclone	Jointly with Prof. Sudipto Chakraborty
S. Mohanta	Beneficiation of High Ash Thermal Coal in an Air Dense Media Fluidized Bed	Jointly with Prof. Sudipto Chakraborty
B. K. Sahoo	Coal and Mineral Beneficiation by Microwave Pretreatment and Rheological Characterization.	Jointly with Prof. S. De
Dipa Das	Capture of CO ₂ in a Multi-Stage Fluidized bed	Sole
KurellaSwamy	Cleaning of synthesis gas mixture in a multi-stage wet scrubber	Sole
AlokeTripathy	Up-gradation of High Ash Coal in Fluidized Bed	Jointly with Dr. S. K. Biswal , IMMT , CSIR, Bhubaneswar
S K Behera	Beneficiation of Low Grade Coal by Chemical Leaching	Jointly with Prof. Sudipto Chakraborty
GayatreePatra	Separation of fine particles in a Hydrocyclone with internals	Jointly with Prof. Sudipto Chakraborty
Manisha Bal	Design and Development of AVenturi Scrubber for the Control of Air Pollutants	Sole
Subrata Biswas	Treatment of Industrial Wastewater in a Semi-fluidized Bed Bio-Reactor	Jointly with Curtin under Dual PhD IITKgp-Curtin Program
Usha Kumari	Removal of Fluoride from Waste Water	Sole
Ipsita Behera	Water Pollution Control	Jointly with Prof R K Sen
Hammad Siddiqui	Conversion of Bio-Mass to Fuels	Sole
Palishree Prusty	Iron Ore Processing	Jointly with IMMT
Sachinda Nanda Sahu	Ore processing	Jointly with IMMT
Asmita Mishra	De-contamination of Soil	Sole
G Durga Prasad	Coal Beneficiation in an ADMFB Reactor	Sole
Payal Maiti	Wastewater Treatment by Adsorption Techniques	Sole
Subhrajit Mukherjee	Control of Air Pollutants in a Self-Priming Venturi Scrubber	Sole

(b) Guidance at Doctoral level (Number in progress: 07)

Name	Topic	Remarks
Poulomi Hazra	Pollution Control	Sole
Pankaj Pamar	Pollution Control	Sole
Abesh Chatterjee	Chemical beneficiation	Sole
Soumen Panda	Water Pollution	Sole
Vikash Singh	Waste to Energy	Sole
Neha Singh	Pollution Control	Sole
Ashagrie Liyew Ayele	Water Pollution Control	Sole

(ii) Guidance at Masters level :

Number completed	Number in progress
150 (sole guidance)	03 (sole guidance)
20 (joint guidance)	02 (joint guidance)

10. List of papers published in journals:225

Google h-index: 53

i-10 index: 175

Top 2% Scientist as per Stanford University for 2024, 2025

1. S Panda, NJ Devi, P Maiti, A Chatterjee, P Hazra, VK Singh, P Parmar, B C Meikap, Development of a novel FeCl₃-activated magnetic biochar for adsorptive removal of paracetamol and environmental impact analysis, *Powder Technology*, 122021
2. G D Prasad, M Bal, A Mishra, BC Meikap , Optimization of process variables in air dense medium fluidized bed for high ash thermal coal beneficiation using CFD simulation, *International Journal of Coal Preparation And Utilization* (2025)
3. A Mishra, P Maiti, A Chatterjee, NS Mishra, BC Meikap, A Co-pyrolysis of rice stubble and waste motor oil for transformative biofuel generation, *International Journal of Green Energy*, 1-11(2025)
4. S K Behera, Dipa Das, B C Meikap , Study the effect of Ca(OH)₂ and acid treatment on the demineralization characteristics of high ash coal, *International Journal of Coal Preparation and Utilization*, 1-12 (2025)
5. P. Maiti, BC Meikap, Mechanism and adsorptive removal of Pb (II) by torrefied/pyrolyzed functionalized bio-adsorbent in batch application and life cycle assessment, *Separation and Purification Technology* 354, 129333 (2025)
6. A. Arora, VE Porley, BC Meikap, R Sen, A Debnath, E Chatzisyneon, Field Trials of Low-Cost Bi-TiO₂-P25 Solar Photo Catalyst for Water Treatment, *Advanced Sustainable Systems*, 2400823 (2025)
7. A. Chatterjee, A Saha, P Maiti, BC Meikap, In-depth analysis of structural modification of low-rank coal through NH₄HF₂ treatment: A pathway towards eco-friendly enhanced combustion, *Journal of Industrial and Engineering Chemistry* (2025)
8. VK Singh, A Chatterjee, P Maiti, P Parmar, S Mukherjee, BC Meikap, Pyrolysis of used lubricating oil using industrial waste-based catalyst for energy efficient fuel generation: A comprehensive review, *Fuel* 391, 134751 (2025)
9. P Maiti, A Chatterjee, A Mishra, S Biswas, BC Meikap , Thiazine dye sorption onto (NH₄)₂S₂O₈ treated bio-adsorbent: Implications for batch and fixed-bed column applications *Separation and Purification Technology*, 132256(2025).
10. GD Prasad, BC Meikap, Modeling and optimizing the flotation of coal fines: an investigation utilizing the Box-Behnken design in conjunction with response surface methodology, *International Journal of Coal Preparation And Utilization* (2024)
11. Durga Prasad G, P Ramteke, D Das, BC Meikap, Processing of low-grade Indian coking coal using air fluidized dense medium bed separator and flotation technique, *International Journal of Coal Preparation and Utilization*, 1-43(2024)
12. B Pradhan, ID Behera, S Mohanta, BC Meikap, Modelling of size recovery curves for minerals in teeter bed separator for processing iron ore fines, *South African Journal of Chemical Engineering* 50, 182-188 (2024)
13. P Parmar, S Mukherjee, BC Meikap, Comprehensive Analysis on the Combined Effects of Reaction Kinetics and Heat Transfer on Biomass Pyrolysis, *Process Safety and Environmental Protection* , 188, 350-362 (2024)
14. A. Mishra., H. Siddiqi, M. Sonowal, A. Chatterjee, P Maiti, & B. C.Meikap, A cumulative study on pyrolysis of waste motor oil exploring the design and development of a fixed-bed laboratory scale setup with emphasis on process parameter optimization, COMSOL simulation and preliminary risk assessment. *Process Safety and Environmental Protection*, 185, 1219-1231 (2024).
15. S. Naidoo, D. Lokhat, M. Carsky, D. Das, & B. C. Meikap, Comprehensive economic analysis of a multi-tubular reactor. *Indian Chemical Engineer*, 1-31 (2024).
16. A. Mishra, & B. C. Meikap, Optimization and screening of process parameters for the robust co-pyrolytic study of waste motor oil and rice stubble toward sustainable waste-to-fuel generation. *Chemosphere*, 141450 (2024).
17. P Parmar, S Mukherjee, VK Singh, BC Meikap, Thermo-kinetic analysis of sugarcane bagasse as a sustainable energy resource evaluation, *Thermal Science and Engineering Progress* 54, 102836 (2024)
18. A. Chatterjee, P. Maiti, H. Siddiqi, A. Mishra, G. D. Prasad, & B. C. Meikap, Interpreting crystallographic and microcrystalline structural effect for demineralization of low-grade thermal coal in multi-stage chemical leaching: A cleaner combustion approach. *Powder Technology*, 435, 119435 (2024).
19. S Mukherjee, H Siddiqi, P Maiti, P Parmar, BC Meikap, A Comprehensive Analysis of Removal of Hazardous Dust Particulates from Chemical and Process Industries Off Gases by Advanced Wet Scrubbing Techniques-A Review, *Journal of Loss Prevention in the Process Industries*, 105406 (2024)
20. P. Maiti, M. Mangsatabam, A. Chatterjee, H. Siddiqi, A. Mishra, & B. C Meikap, In-situ synthesis of efficient ZnCl₂ doped pyrolyzed biochar for adsorptive remediation of organic dyes: Performance evaluation, mass transfer and mechanism. *Separation and Purification Technology*, 329, 125096 (2024).
21. M. S. Mansoor, A. Mishra, D. Lokhat, & B. C Meikap, Application of Artificial Neural Network (ANN) as a predictive tool for the removal of

- pharmaceutical from wastewater streams using biochar: a multifunctional technology for environment sustainability. *Journal of Environmental Science and Health, Part A*, 59(1), 40-53 (2024).
22. M. Bal, P. Das, & B. C. Meikap, Optimization of effecting parameters for flue gas desulfurization in a self-priming venturi scrubber using response surface methodology. *CLEAN–Soil, Air, Water*, 51(12), 2300034 (2023).
 23. S. Kurella, & B. C. Meikap, Simultaneous removal of H₂S and particulate matter by a multistage dual-flow sieve plate scrubber. *Results in Engineering*, 20, 101470 (2023).
 24. A Mishra, Mayuri Sonowal, Venkata Yasaswy Turlapati, Payal Maiti & BC Meikap, A comprehensive thermo-kinetics devolatilization analysis of waste motor oil: Thermal degradation kinetics, kinetic model, thermodynamic analysis, and ANN. *International Journal of Green Energy* 20(11), 1191-1203 (2023)
 25. J. N. Sahu, Y. Kapelyushin, D. P. Mishra, P. Ghosh, B. K. Sahoo, E. Trofimov, & B. C Meikap, Utilization of ferrous slags as coagulants, filters, adsorbents, neutralizers/stabilizers, catalysts, additives, and bed materials for water and wastewater treatment: A review. *Chemosphere*, 325, 138201 (2023).
 26. K. Barik, P. Prusti, S. Soren, B. C. Meikap, & Biswal, S. K. Mineralogical investigation on preheating studies of high LOI iron ore pellet. *Powder Technology*, 418, 118315 (2023).
 27. A Mishra, BC Meikap, Optimization of process parameters for waste motor oil pyrolysis towards sustainable waste-to-energy utilizing a combinatorial approach of response surface methodology and desirability criteria. *Fuel*, 353, 129226 (2023)
 28. C Chetty, D Lokhat, M Bal, BC Meikap, Development of improved correlations for shell side heat transfer co-efficient in multi-tubular reactors network heat exchanger, *Thermal Science and Engineering Progress*, 101733(2023).
 29. P. Prusti, K. Barik, N. Das, B C Meikap, S K Biswal, Mineralogical Investigation on Preheating Studies of High LOI Iron Ore Pellet. *Powder Technology* (2023).
 30. S N Sahu, BC Meikap, SK Biswal, Reduction in fossil fuel consumption by exploiting separation of refractory grade oolitic iron ores using black plum leaf litter via magnetization roasting & pelletization; a small step toward decarbonization & sustainability, *Separation and Purification Technology*, 123327(2023).
 31. P Maiti, H Siddiqi, U Kumari, A Chatterjee, BC Meikap, Adsorptive remediation of azo dye contaminated wastewater by ZnCl₂ modified bio-adsorbent: Batch study and life cycle assessment. *Powder Technology* 415, 118153 (2023).
 32. J Mahabeer, U Kumari, D Lokhat, M Carsky, BC Meikap, Implementation of microplastics derived from waste plastic for uptake of MB dye: Performance and LCA study, *Desalination* 546, 116214 (2023).
 33. Tristan Lee Zebert, David Lokhat, Swamy Kurella, B.C. Meikap, Modeling and Simulation of Ethane Cracker Reactor using Aspen Plus, *South African J. of Chemical Engg.* (2023)
 34. ID Behera, M Nayak, A Mishra, BC Meikap, R Sen, Strategic implementation of integrated bioaugmentation and biostimulation for efficient mitigation of petroleum hydrocarbon pollutants from terrestrial and aquatic environment, *Marine Pollution Bulletin* 177, 113492 (2022)
 35. G Richhariya, A Kumar, AK Shukla, KN Shukla, BC Meikap, Effect of Different Counter Electrodes on Power Conversion Efficiency of DSSCs, *Journal of Electronic Materials*, 1-12 (2022)
 36. JN Sahu, RR Karri, BC Meikap, Adsorption of Cr (VI) Using a Hybrid Evolutionary Differential and Multivariable Quadratic Technique, *Chemical Engineering & Technology* 45 (10), 1884-1893 (2022)
 37. S N Sahu, BC Meikap, SK Biswal, Beneficiation of Clay-Rich High-LOI Low-Grade Iron Ore Fines: Assessment of Conventional Deep Beneficiation and Magnetization Roasting Using High-Ash Non-coking Coal, *Mining, Metallurgy & Exploration*, 1-12 (2022)
 38. H Siddiqi, A Mishra, P Maiti, ID Behera, BC Meikap, In-situ and ex-situ co-pyrolysis studies of waste biomass with spent motor oil: Elucidating the role of physical inhibition and mixing ratio to enhance fuel quality, *Bioresource Technology*, 127364(2022)
 39. Sachida Nanda Sahu, S K Biswal, B C Meikap, Magnetization roasting of waste iron ore beneficiation plant tailings using sawdust biomass; A novel approach to produce metallurgical grade pellets, *Journal of Cleaner Production* 343, 130894 (2022)
 40. DL Reddy, D Lokhat, H Siddiqi, BC Meikap, Modelling and simulating CO and CO₂ methanation over Ru/γ-Al₂O₃ catalyst: An integrated approach from carbon capture to renewable energy generation, *Fuel* 314, 123095(2022)
 41. G Richhariya, BC Meikap, A Kumar, Review on fabrication methodologies and its impacts on performance of dye-sensitized solar cells, *Environmental Science and Pollution Research*, 1-19(2022)
 42. P. P Moodley, D Lokhat, A Ahmad, A Mishra, BC Meikap Kinetic studies on the potential use of citrus-based green and low-cost demulsifying agents for the oil-in-water emulsions treatment, *Journal of Environmental Chemical Engineering*, 107127(2021).
 43. Prachi Pandey, Aditya Pandey, Long Yan, Dengshan Wang, Vinay Pandey, Bhim Charan Meikap, Jiang Huo, Ruihong Zhang and Pramod K. Pandey "Dairy Waste and Potential of Small-Scale Biogas Digester for Rural Energy in India" *Appl. Sci.* 11, 10671, 1-14(2021).
 44. K. Barik, P Prusti, BC Meikap, S Soren, R Venugopal, SK Biswal "Investigation on Loss on Ignition to Study the Effect of Iron Ore Mineralogy in Green Pellet Growth Kinetics, *Trans. Indian Inst. of Metals*, 1-13 (2021)
 45. H Siddiqi, A Mishra, U Kumari, Payal Maiti, BC Meikap. Utilizing agricultural residue for the cleaner bio-fuel production and simultaneous air pollution mitigation due to stubble burning: A net energy balance and total emission assessment, *ACS Sustainable Chemistry & Engineering* (2021)
 46. P. Prusti, K. Barik, N. Das, B C Meikap, S K Biswal, "Pelletization of hematite and synthesized magnetite concentrate from a banded hematite quartzite ore: A comparison study, *Advanced Powder Technology*, in press (2021)

47. Ipsita Dipamitra Behera, M. Nayak, S Biswas, B. C. Meikap , R. Sen," Enhanced biodegradation of total petroleum hydrocarbons by implementing a novel two-step bioaugmentation strategy using indigenous bacterial consortium *Journal of Environmental Management* 292, 112746 (2021).
48. H Siddiqi, S Biswas, U Kumari, V N V H Bindu, S. Mukherjee , BC Meikap. A comprehensive insight into devolatilization thermo-kinetics for an agricultural residue: Towards a cleaner and sustainable energy , *Journal of Cleaner Production* 310, 127365 (2021)
49. A Mishra, Usha Kumari, V K Turlapati, H Siddiqi, BC Meikap. Pyrolysis of waste lubricating oil to generate high-grade fuel oil: a comprehensive review *Renewable and Sustainable Energy Reviews*, 150, 111446 (2021).
50. S. Mukherjee, Amit Verma, S K Biswas, Manisha Bal, B. C. Meikap "Removal of Cement Dust Particulates via Fully Submerged Self-Primed Venturi Scrubber" *CLEAN Soil, Air, Water*. 49 (5), 2000241(2021) .
51. Ipsita Dipamitra Behera, GeetanjaliBasak, Ravi Ranjan Kumar, Ramkrishna Sen, B. C. Meikap" Treatment of petroleum refinery sludge by petroleum degrading bacterium *Stenotrophomonas pavanii* IRB19 as an efficient novel technology" *J Environment Health: Part A* , in press (2021).
52. S. Mukherjee, S Boral, H. Siddiqi, A Mishra, B. C. Meikap "Present cum future of SARS-CoV-2 virus and its associated control of virus-laden air pollutants leading to potential environmental threat - A Review" , *J. of Environment Chemical Engineering*.9(2), 104973(2021).
53. S K Biswas, Hammad Siddiqi,B. C. Meikap , T K Sen & Mehdi Khiadani "Semifluidized bed adsorption column studies for simultaneous removal of aqueous phase Pb²⁺ and Cd²⁺ by composite adsorbents: an experimental and mass transfer dynamic model based approach" , *Water, Air, & Soil Pollution* , in press (2020).
54. P. Prusti, K. Barik, N. Das, S K Biswal, B C Meikap "Effect of limestone and dolomite flux on the quality of pellets using high LOI iron ore, *Powder Technology*, <https://doi.org/10.1016/j.powtec.2020.10.063>, in press (2020)
55. Manisha Bal, S. Biswas, UshaKumari, I D Behera ,B C Meikap. Hydrodynamic study and particulate matter removal in a self primingventuri scrubber. *Environmental Technology & Innovation* 20, 101167(2020).
56. Hima Bindu V. V., V K Chandaliya, H Siddiqi, S. Ray, B C Meikap. Role of kinematic viscosity on removal of QuinolineInsolubles from coal tar using wash oil and mixed solvent. *Separation Science and Technology*, 56 (12), 2061-2073(2021)
57. S K Biswas,RK Diwakar, ID Behera, B. C. Meikap & T K Sen "Aqueous phase phenol removal from synthetic and real steel plant effluents through a batch and Semifluidized bed column operation: Experimental and Mass Transfer model analysis" , *J. of Environment Chemical Engineering*. 104441 (2020).
58. Usha Kumari, A. Mishra ,H Siddiqi, B C Meikap. Effective defluoridation of industrial wastewater by using acid modified alumina in fixed-bed adsorption column: Experimental and breakthrough curves analysis. *Journal of Cleaner Production*, 279, 123645(2021).
59. A Mishra, UshaKumari, V K Turlapati, H Siddiqi, BC Meikap. Extensive thermogravimetric and thermo-kinetic study of waste motor oil based on iso-conversional methods. *Energy Conversion and Management*221, 113194 (2020).
60. Sachida Nanda Sahu, S K Biswal, B C Meikap "Pelletization of synthesized magnetite concentrate obtained by magnetization roasting of Indian low-grade BHQ iron ore, *Powder Technology*, 374, 101406 (2020).
61. Usha Kumari, S Biswas, B C Meikap. Defluoridationa Kuma characteristics of a novel adsorbent developed from ferroalloy electric arc furnace slag: Batch, column study and treatment of industrial wastewater. *Environmental Technology & Innovation*, 100782 (2020) .
62. S K Biswas, B. C. Meikap & T K Sen. Process Modelling and optimization of a novel Semifluidized bed adsorption column operation for aqueous phase divalent heavy metal ions removal, *Journal of Water Process Engineering*, 37, 101406 (2020).
63. Usha Kumari, Hammad S., Manisha Bal, B C Meikap. Calcium and zirconium modified acid activated alumina for adsorptive removal of fluoride: performance evaluation, kinetics, isotherm, characterization and industrial wastewater treatment. *Advanced Powder Technology*, 31(5) 2045- 2060 (2020).
64. H Siddiqi, U Kumari, S Biswas, A Mishra, BC Meikap. A synergistic study of reaction kinetics and heat transfer with multi- component modelling approach for the pyrolysis of biomass waste, *Energy* 117933 (2020)
65. Victoria Porley, EftthaliaChatzisyneon, BhimCharan Meikap, SomnathGhosal and Neil Robertson "Field testing of low-cost titania-based photocatalysts for enhanced solar disinfection (SODIS) in rural India, *Environmental Science : Water Research & Technology* , 6, 809-816, 2020.
66. Dipa Das, B C Meikap. Role of amine-impregnated activated carbon in carbon dioxide capture. *Indian Chemical Engineer*, 1-13 (2020).
67. S K Biswas, B. C. Meikap & T K Sen "Preparation and characterization of raw and inorganic acid activated pine cone biochar and its application in the removal of aqueous phase Pb²⁺ metal ions by adsorption , *Water, Air, & Soil Pollution*.231(3), 1-12, 2020.
68. Hammad Siddiqi, V. K. Chandaliya, A. Suresh, P. S. Das, B. C. Meikap In-depth physiochemical characterization and detailed thermo-kinetic study of biomass wastes to analyze its energy potential , *Renewable Energy*, 148, 756-771, (2020)
69. S K Biswas, B. C. Meikap & T K Sen "Batch and continuous Closed Circuit Semi-Fluidized Bed operation: Removal of MB Dye using Sugarcane Bagasse Biochar and Alginate Composite adsorbents" , *J. of Environment Chemical Engineering*. 8, 1-12,103637, (2020).
70. C Banerjee, VK Chandaliya, PS Dash, BC Meikap. "Effect of different parameters on porosity and compressive strength of coal tar pitch derived carbon foam" *Diamond and Related Materials* 95, 83-90 (2019).
71. Manisha Bal, Hammad Siddiqi, Subhrajit Mukherjee and B C Meikap. "Design of self primingventuri scrubber for the simultaneous abatement of HCl gas and particulate matter from the flue gas" *Chem. Eng. Res. & Des.* 5 0, 311–319(2019).
72. S K Biswas, B. C. Meikap & T K Sen "Experimental Hydrodynamic and bed Characteristics of Co-current Gas-Liquid-Solid Three Phase Semifluidizationwith liquid as the continuous phase" , *Particulate Science & Technology*.38(8) 999-1011, (2020).
73. Hammad Siddiqi, V. K. Chandaliya, A. Suresh, P. S. Dash, B. C. Meikap Optimisation of briquetting parameters and reactivity analysis for iron catalyzed coke. *Mineral Processing and Extrac. Metallurgy Rev.* 41(6) 370-380 (2020).

74. Usha Kumari, H. Siddique, S K Behera , B C Meikap. Facile method to synthesize efficient adsorbent from alumina by nitric acid activation: batch scale defluoridation, kinetics, isotherm studies and implementation on industrial wastewater treatment. *Journal of Hazardous Materials* 381, 120917(2020).
75. Rama Rao Karri, J. N. Sahu and B. C. Meikap, Improving efficacy of Cr (VI) adsorption process on sustainable adsorbent derived from waste biomass (sugarcane bagasse) with help of ant colony optimization, *Industrial Crops and Products*, 143, 111927 (2020).
76. Dipa Das, B C Meikap. Removal of CO₂ in a Multi Stage Fluidized Bed Reactor by amine impregnated activated carbon: optimization using response surface methodology, *International Journal of Coal Science & Technology*, 6 (3), 445-458 (2019).
77. S K Biswas, B. C. Meikap & T K Sen "Adsorptive removal of aqueous phase copper (Cu²⁺) and nickel (Ni²⁺) metal ions by synthesize Biochar-biopolymeric hybrid adsorbents and process optimization by response surface methodology (RSM) , *Water, Air, & Soil Pollution*.230 (8), 197 (2019).
78. J. Acharya, U. Kumar, B. C. Meikap. Thermodynamic Spectral and Kinetic Analysis of the Removal of Cu(II) from Aqueous Solution by Sodium Carbonate Treated Rice Husk ,*J Environment Health: Part A* ,54 (8), 801-809(2019).
79. Dipa Das, B C Meikap. Removal of CO₂ in a Multi Stage Fluidized Bed Reactor by Monoethanolamine Impregnated Activated Carbon. *Mineral Processing and Extractive Metallurgy* 130 (2), 98-104(2021).
80. Manisha Bal, B C Meikap. Control of accidental discharge of radioactive materials by filtered containment venting system: A Review. *Nuclear Engineering and Technology* 51 (4), 931-942 (2019).
81. S K Biswas, Manisha Bal, S. K. Behera, T. K. Sen & B. C. Meikap "Process Optimization Study of Zn²⁺ Adsorption on Biochar-Alginate Composite Adsorbent by Response Surface Methodology (RSM) *Water*, 11, 1-15(2019)
82. Tripathy, A., S. Bagchi, S. K. Biswal, B C Meikap. Prediction of Degree of Particle Misplacement in Liquid Solid Fluidization Using Artificial Neural Network. *Separation Sci. & Tech.* 55 (1), 68-80 (2020).
83. Manisha Bal, B C Meikap. Removal of HCl Gas from Off Gases using Self-Priming Venturi Scrubber. *Journal of Hazardous Materials* 364, 406-418(2019).
84. Tripathy, A., S. K. Biswal, B C Meikap. Effect of fin type baffle on the particle hydrodynamics, separation and misplacement in a liquid solid fluidized bed separator. *Advanced Powder Technology*.30, 428-438(2019).
85. UshaKumari, S K Behera , B C Meikap. A novel acid modified alumina adsorbent with enhanced defluoridation property: kinetics, isotherm study and applicability on industrial wastewater. *Journal of Hazardous Materials* 365, 868-882(2019).
86. Manisha Bal, S K Behera , B C Meikap. Modelling and optimization of process variables for HCl gas removal by response surface methodology .*J Environment Health: Part A* , 54 (4), 359-366 (2019).
87. S K Biswas, B. C. Meikap & T K Sen "Synthesis and characterization of a novel Ca-alginate –biochar composite as efficient zinc (Zn 2+) adsorbent: Thermodynamics, process design, mass transfer and isotherm modeling"*Separation Sci. & Tech.* 54 (7), 1106-1124 (2019).
88. UshaKumari, S K Behera , B C Meikap. Defluoridation of synthetic and industrial wastewater by using acidic activated alumina adsorbent: characterization and optimization by response surface methodology. *J Environment Health: Part A*,54, 79-88 (2018).
89. S. K., Behera, Meena, H., Chakraborty, S., Meikap, B. C. Application of response surface methodology (RSM) for optimization of leaching parameters for ash reduction from low-grade coal. *International Journal of Mining Science & Technology*, 28(4):621-629(2018).
90. S K Behera, UshaKumari, B. C. Meikap. Review of chemical leaching of coal by acid and alkali solution. *Journal of Mining and Metallurgy Section A: Mining*, Volume 54 (1) A (2018).
91. Manisha Bal, B C Meikap. Performance Evaluation of Venturi Scrubber for the Removal of Iodine in Filtered Containment Venting System, *Chem. Eng. Res. & Des.*138, 158-167 (2018).
92. G Patra, Raja Barnwala, S K. Behera, B C Meikap Removal of dyes from aqueous solution by sorption with fly ash using a hydrocyclone. *J. of Environment Chemical Engineering*, 6, 5204-5211(2018).
93. S K Behera, S. Chakraborty, B. C. Meikap Demineralization mechanism and influence of parameters on high ash Indian coal by chemical leaching of acid and alkali solution . *Int. J. of Coal Sci. & Techno.* 5 (2), 142-155(2018).
94. Dipa Das, B C Meikap. Comparison of adsorption capacity of mono-ethanolamine and diethanolamine impregnated activated carbon in a multi-staged fluidized bed reactor for carbon-dioxide capture. *Fuel*, 224, 47-56(2018).
95. S K Behera, S. Chakraborty, B. C. Meikap Removal of ash from low grade Indian coal by chemical leaching technique . *Mineral Processing and Extrac. Metallurgy Rev.* 39, 59–67(2018).
96. G Patra, S. Chakraborty, B C Meikap Removal of fluoride from wastewater using HCl treated activated alumina in a ribbed hydrocyclone. *J Environment Health: Part A*, 53 (7), 601-608 (2018).
97. S K Behera, S. Chakraborty, B. C. Meikap Chemical demineralization of high ash Indian coal by using alkali and acid solutions . *Fuel*, 196, 102-109(2017).
98. Tripathy, A., S. Bagchi, S. K. Biswal, B C Meikap. Study of particle hydrodynamics and misplacement in liquid-solid fluidized bed separator. *Chem. Eng. Res. & Des.* 117, 520–532 (2017).
99. SwamyKurella, PawanKishanBhukya & B. C. Meikap removal of H₂S pollutant from gasifier syngas by a multistage dual-flow sieve plate column wet scrubber *J Environment Health: Part A*, 52(6), 515-523(2017).
100. P Biswas, J N Panda, D Nag, N Chougale, V K Chandaliya, G Ghosh, P S Dash, B. C. Meikap. Hydrogen evolution during devolatilization to predict coking potential of metallurgical coals. *Energy & Fuels* , 31 (2), 1091–1099(2017).
101. Manisha Bal, B C Meikap. Prediction of hydrodynamic characteristics of a venturi scrubber by using CFD simulation, *South African J. of Chem. Engg.* 24, 222-231 (2017)
102. G Patra, B Velpuri, S. Chakraborty, B C Meikap . Performance evaluation of a hydrocyclone with a spiral rib for separation of particles. *Advanced Powder Technology*, 28, 3222-3232(2017).

103. B. K. Sahoo, S. De, B. C. Meikap. Artificial neural network approach for rheological characteristics of coal-water slurry using microwave pre-treatment. *International Journal of Mining Science and Technology*, 27, 379-386 (2017)
104. Dipa Das, Debi Prasad Samal, Nafeez Mohammad, B. C. Meikap. Hydrodynamics of a multi-stage counter-current fluidized bed reactor with down-comer for amine impregnated activated carbon particle system. *Advanced Powder Technology*, 28(3), 854-864(2017).
105. B.K. Sahoo , T.K. Das , A. Gupta, S. De , M. Carsky , B.C. Meikap. Application of response surface analysis to iron ore slurry rheology using microwave pre-treatment, *South African J. of Chem. Engg.* 23, 81-90 (2017)
106. Swamy K., B. C. Meikap. Hydrodynamic characteristics of a three-stage dual-flow sieve plate scrubber, *South African J. of Chem. Engg.* 23, 91-97 (2017)
107. Tripathy, A., S. K. Biswal, B. C. Meikap. Statistical modelling and optimization study for beneficiation of Indian high ash semi-coking coal using allflux separator. *Advanced Powder Technology*, 27, 1488-1493 (2016).
108. Swamy K, B. C. Meikap. Fly-ash removal from coal syngas using multi-stage dual-flow sieve plate column wet scrubber. *J Environment Health: Part A*, 51(10), 870-876 (2016).
109. Dipa Das, B. C. Meikap. Removal of CO₂ in a multistage fluidized bed reactor by diethanol amine impregnated activated carbon. *J Environment Health: Part A*, 51(9), 769-775 (2016).
110. Mohanta, S., S. Chakraborty, B. C. Meikap. Impact of coal quality on thermal power plant savings: A case study for an Indian thermal power plant. *South African Journal of Chemical Engineering*. 20(2), 56-68(2015).
111. Mohanta, S., B. C. Meikap. Pre-combustion Removal Possibility of Hazardous Trace Elements from Indian High-ash Coal by Coal Preparation Technologies. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* 38(12), 1693-1698(2016).
112. Dipa Das, D. Samal, B. C. Meikap. Preparation of Activated Carbon from Green Coconut Shell and its Characterization. *J ChemEng Process Technol*, 6:5, 1-7 (2015).
113. G. Rana, T. Mandal, N. K. Mandal, D. Sakha, B. C. Meikap. Calcite Solubilization by Bacteria: A Novel Method of Environment Pollution Control. *Geomicrobiology Journal*, 32, 846-852(2015).
114. Swamy K, B. C. Meikap. Hydrodynamic Study of Multi-Stage Plate Column Scrubber for Removal of Particulate, *The Southern African Journal of Chemical Engineering* 201, 44-60 (2015).
115. Swamy Kurella, Mounika Balla, Pavan Kishan Bhukya, Meikap B. C. Scrubbing of HCl Gas from Synthesis Gas in a Multistage Dual-Flow Sieve Plate Wet Scrubber by Alkaline Solution. *J ChemEng Process Technol*, 6:5, 1-7 (2015).
116. B. K. Sahoo, S. De, B. C. Meikap. An Investigation into the influence of microwave energy on iron ore-water slurry rheology. *Journal of Industrial and Engineering Chemistry*, 25, 122-130 (2015).
117. Mohanta, S., B. C. Meikap. Influence of medium particle size on the separation performance of an air dense medium fluidized bed separator for coal cleaning, *The Journal of The Southern African Institute of Mining and Metallurgy*, 115(08) 1-6 (2015)
118. J. N. Sahu, J. Acharya, B. K. Sahoo, B. C. Meikap. Optimization of lead(II) sorption potential using developed activated carbon from tamarind wood with chemical activation by zinc chloride, *Desalination and Water Treatment*, 57, 2006-2017 (2016)
119. S. Kumar, B. C. Meikap. Removal of Chromium(VI) From Waste Water By Using Adsorbent Prepared From Green Coconut Shell. *Desalination and Water Treatment*, 52, 3122-3132 (2014).
120. Sripriya, R., Meikap, B. C., Suresh, N., Chakraborty, S., Bhattacharjee, D., Chandra, S. Role of air core in particle separation in cyclones, *Transactions of the Institutions of Mining and Metallurgy, Section C: Mineral Proc. and Ext. Metl.*, 122, 25-35 (2013)
121. J. Acharya, A. Kumar, B. C. Meikap. Thermodynamic characterization of adsorption of lead(II) ions on activated carbon developed from tamarind wood from aqueous solution. *South African Journal of Chemical Engineering*, 18(1), 70-76, 2014(2013)
122. M. Das, R. K. Saha, B. C. Meikap. Study of hydrodynamics and dry beneficiation characteristics of coal in the riser of a circulating fluidized bed reactor. *International Journal of Coal Preparation And Utilization*, 33(6), 266-276(2013).
123. K. Panda, A. K. Swar, B. C. Meikap. Distribution of respirable suspended particulate matter in ambient air and its impact on human health and remedial measures at Bholabedha-Joda-Barbil region in Orissa. *South African Journal of Chemical Engineering* 18(1), 18-29(2013)
124. Mohanta, S., S. Chakraborty, B. C. Meikap. Optimization Process of an Air Dense Medium Fluidized Bed Separator for Treating High-Ash Non-Coking Coal, *Mineral Processing and Extractive Metallurgy Review*, 34, 240-248 (2013).
125. S. Lahore, S. Chakraborty, B. C. Meikap. Generation of Uniform Small Bubbles and Hydrodynamic Characterization of a Bubble Column with High Pressure Jet Sparger, *Korean Journal of Chemical Engineering*, 29(6), 724-730 (2012).
126. Mohanta, Satyabrata, A. B. Daram, C. S. Rao, S. Chakraborty, B. C. Meikap. Air Dense Medium Fluidized Bed for Dry Beneficiation of Coal: Technological Challenges for Future, *Particulate Science and Technology*, 31, 16-27 (2013).
127. C. R. Mohanty, A. K. Swar, B. C. Meikap, J. N. Sahu. Studies on factors influencing fly ash resistivity from electrostatic precipitator with reference to India, *Journal of Scientific and Industrial Research*, 70 (9), 795-803(2011).
128. A. K. Swar, B. C. Meikap. Role of Particle Capture Velocity to Control Fugitive Dust Emission by Bag Filter System. *South African Journal of Chem. Engg.*, 16(1), 63-75, (2011).
129. P. Gangadharan, J. N. Sahu, J. N., B. C. Meikap. In situ synthesis of ammonia by catalytic hydrolysis of urea in the presence of aluminium oxide for safe use of ammonia in power plants for flue gas conditioning. *Journal of Chemical Technology and Biotechnology*, 86 (10), 1282-1288 (2011)
130. J. N. Sahu, S. Hussain, B. C. Meikap. Studies on the hydrolysis of urea for production of ammonia and modeling for flow characterization in presence of stirring in a batch reactor using computational fluid dynamics, *Korean Journal of Chemical Engineering*, 28, 6, 1380-1385 (2011).

131. J. N. Sahu, P. Gangadharan, Anand V. Patwardhan, B. C. Meikap. Optimization process parameters for in-situ synthesis of ammonia by catalytic hydrolysis of urea with fly ash in a batch reactor for safe feedstock in power plants, *Journal of Environmental Science and Health, Part A*, 46(8), 874-886 (2011).
132. Mohanta, Satyabrata , S. Chakraborty , B. C. Meikap "Influence of Coal Feed Size on the Performance of Air Dense Medium Fluidized Bed Separator Used for Coal Beneficiation" *Industrial & Engineering Chemistry Research*, 50 (18), 10865–10871 (2011).
133. U. S. Munda, L. Pholane , D DKar and B. C. Meikap "Production of bio-energy from composite waste materials made of corn waste, spent tea waste and kitchen waste co-mixed with cow-dung" *International Journal of Green Energy*, 9, 361-375 (2012).
134. B. K. Sahoo, S. De and B.C. Meikap " Improvement of grinding characteristics of Indian coal by microwave pre-treatment " *Fuel Processing Technology*, 92, 1920–1928 (2011).
135. K.J. Cronje , K. Chetty, M. Carsky, J.N. Sahu , B.C. Meikap "Optimization of chromium(VI) sorption potential using developed activated carbon" *Desalination* , 275 (1-3) , 276 - 284 (2011).
136. J .N. Sahu, A.V. Patwardhan, B.C. Meikap "Computational fluid dynamics modelling for hydrolysis of urea in a batch reactor for flue gas conditioning" *Chemical Engineering & Technology*, 34(8), 1347-1352 (2011).
137. Mohanta, Satyabrata , S. Chakraborty , B. C. Meikap "Prediction of economic operating conditions for Indian coal preparation plants" *Fuel Processing Technology*, 92(9), 1696-1700 (2011).
138. Mohanta, Satyabrata , B. K. Mishra, S. Chakraborty , B. C. Meikap "Cost and Quality Optimization: A Win-Win Scenario for Coal Washery and Thermal Power Plant" *Mineral Processing and Extractive Metallurgy Review*, 33, 280-291 (2012).
139. Mohanta, Satyabrata , S. Chakraborty , B. C. Meikap "Economic Challenges in High-Ash Indian Coal Preparation" *International Journal Of Coal Preparation And Utilization*, 30(6), 295-309 (2010).
140. Mohanta, Satyabrata , S. Chakraborty , B. C. Meikap "Reliability of a Generalized Distribution Model for Coal Cleaning" *International Journal Of Coal Preparation And Utilization*, 31 (5), 289-298 (2011).
141. C.R. Mohanty, B.C. Meikap, "Modeling the operation of a three-stage fluidized bed reactor for removing CO₂ from flue gases " ,*Journal of Hazardous Materials*, 187(1-3), 113-121(2011).
142. C. R. Mohanty , B. C. Meikap " Studies on solids mean residence time in a three-stage gas-solid fluidized bed with downcomer" *Korean Journal of Chemical Engineering* , 28(3), 969-973 (2011).
143. J .N. Sahu, A.V. Patwardhan, B.C. Meikap "Optimization for production of ammonia from urea in a semi-batch reactor for safe feedstock in power plants: Experimental and statistical studies" *CLEAN - Soil, Air, Water* 38 (5-6), 533-542 (2010).
144. Parate Dinesh Suresh, V. Kumar , R. Sripriya , S. Chakraborty , B. C. Meikap "Performance characteristics of pilot plant dense media hydrocyclone for beneficiation of coal and 3-D CFD simulation" *Chemical Engineering Science*, 65, 4661–4671 (2010).
145. P. Kumar, B. K. Sahoo, S. De, D. D. Kar, B. C. Meikap " Iron ore grindability improvement by microwave pre-treatment" *Journal of Industrial and Engineering Chemistry*, 16(5), 805-812 (2010).
146. K. K. Mahalik, J. N. Sahu, A. V. Patwardhan and B. C. Meikap " Statistical modeling and optimization of hydrolysis of urea to generate ammonia for flue gas conditioning" " *Journal of Hazardous Materials*, 182, 603-610 (2010).
147. R. Sipriya, S. Chakraborty, B. C. Meikap " Improvement of performance efficiency of a hydrocyclone with design modification by suppressing air core" *Korean Journal of Chemical Engineering* , 28(1), 225-231 (2011).
148. S. Kumar, K. Mohanty, B. C. Meikap " Removal of phenol from dilute aqueous solutions in a multi-stage bubble column adsorber using activated carbon prepared from *Tamarindusindica*wood " *Journal of Environmental Protection Science*, 4, 1-7 (2010).
149. B. K. Sahoo, S. De, M. Carsky, B. C. Meikap " Rheological characteristics of coal-water slurry using microwave pretreatment- a statistical approach" *Journal of Industrial and Engineering Chemistry*, 17 (1), 62-70 (2011).
150. B. K. Sahoo, S. De , M. Carsky and B.C. Meikap " Enhancement of Rheological Behavior of Indian High Ash Coal-Water suspension by using Microwave Pre-Treatment " *Industrial & Engineering Chemistry Research*, 49 (6), 3015-3021 (2010).
151. K. Muvvala, V. Kumar, B.C. Meikap and S. Chakraborty " Development of Soft Sensor to Identify Flow Regimes in Horizontal Pipe Using Digital Signal Processing Technique" *Industrial & Engineering Chemistry Research*, 49 (6), 3001-3010 (2010).
152. V. Krishna, R. Sripriya, V. Kumar, S. Chakraborty, B. C. Meikap " Identification and prediction of air core diameter in a hydrocyclone by a Novel Online Sensor based on Digital Signal Processing Technique", *Chemical Engineering and Processing: Process Intensification*, 49(2), 165-176 (2010).
153. J. N. Sahu, B. C. Meikap " Optimization of ammonia production from urea in continuous process using ASPEN Plus and computational fluid dynamics study of the reactor used for hydrolysis process" *Journal of Industrial and Engineering Chemistry*, 101(6) 1974-1982 (2010).
154. C.R. Mohanty, B. Rajmohan, B.C. Meikap " Identification of Stable Operating Ranges of a Counter-Current Multi-Stage Fluidized Bed Reactor with Downcomer", *Chemical Engineering and Processing: Process Intensification*, 49 , 104–112 (2010).
155. K. Mahalik, J. N. Sahu, A. V. Patwardhan and B. C. Meikap , "Kinetic studies on hydrolysis of urea in a semi-batch reactor at atmospheric pressure for safe use of ammonia in a power plant for flue gas conditioning" *Journal of Hazardous Materials*, 175, 629–637 (2010).
156. J. N. Sahu, Joiti K. Acharya, B. C. Meikap " Optimization of production conditions for activated carbons from *Tamarind wood* by zinc chloride using response surface methodology" *Bioresource Technology*, 101,1974–1982 (2010).
157. D. Chakraborty, G. Siva Rama Krishna, S. Chakraborty and B.C. Meikap , " Hydrodynamic Characteristics of a Sparged Gas-Liquid Contactor for Fine Bubble Generation " *Industrial & Engineering Chemistry Research*, 48, 11225–11229 (2009).
158. J. N. Sahu, A. V. Patwardhan and B. C. Meikap , "In-situ catalytic synthesis of ammonia from urea in a semi-batch reactor for safe utilization in thermal power plant" *Asia Pacific Journal of Chemical Engineering*, 5 ,533-543.(2010).
159. S. Roy, C. R. Mohanty, B. C. Meikap , "Multi-Stage fluidized bed reactor performance characterization for adsorption of carbon dioxide" *Industrial & Engineering Chemistry Research*, 48(23), 10718-10727(2009).

160. J. N. Sahu, Joiti K. Acharya, B. C. Meikap, "Response surface modeling and optimization of chromium(VI) removal from aqueous solution using Tamarind wood activated carbon in batch process" *Journal of Hazardous Materials*, 172, 818–825 (2009).
161. H. M. Jena, G.K. Roy, B. C. Meikap " Hydrodynamics of regular particles in a liquid–solid semi-fluidized bed" *Powder Technology*, 196, 246-256 (2009).
162. C. R. Mohanty, A. K. swar , B. C. Meikap , "Interlocking System for Air Pollution Monitoring and Control in Steel Making Industries by DRI Route" *Process & Plant Engineering* , XXVII (3), 26-31 (2009).
163. S. Kumar, B. Rajmohan, K. Mohanty , B. C. Meikap, " Characterisation of activated carbon prepared from tamarind wood for wastewater treatment" *Int. J. Environmental Engineering*, 2(1), 290-302 (2009).
164. J. Acharya, J. N. Sahu, B. K. Sahoo, C. R. Mohanty, B. C. Meikap, " Removal of Chromium(VI) from wastewater by activated carbon developed from Tamarind wood activated with zinc chloride, *Chemical Engineering Journal*, 150 , 25-39 (2009).
165. C. R. Mohanty, G. Mallavia , B. C. Meikap , "Development of a counter-current multi-stage fluidized bed reactor and mathematical modeling for prediction of removal efficiency of sulfur dioxide from flue gases" *Industrial & Engineering Chemistry Research*, 48, 1629–1637 (2009).
166. J. N. Sahu, A. V. Patwardhan and B. C. Meikap "Equilibrium and kinetic studies of in-situ generation of ammonia from urea in a batch reactor for flue gas conditioning of thermal power plants" *Industrial & Engineering Chemistry Research*, 48 , 2705-2712 (2009).
167. J. N. Sahu, P. Gangadharan ,A. V. Patwardhan and B. C. Meikap "Catalytic hydrolysis of urea with fly ash for generation of ammonia in a batch reactor for flue gas conditioning and NOx reduction" *Industrial & Engineering Chemistry Research*, 48 , 727-734 (2009).
168. Joiti K. Acharya, J. N. Sahu, C. R. Mohanty, B. C. Meikap "Removal of lead(II) from wastewater by activated carbon developed from Tamarind wood by zinc chloride activation" *Chemical Engineering Journal*, 149(1-3), 249-262(2009).
169. J. N. Sahu, K. K. Mahalik, A. V. Patwardhan and B. C. Meikap " Equilibrium studies on hydrolysis of urea in a semi-batch reactor for production of ammonia to reduce hazardous pollutants from flue gas" *Journal of Hazardous Materials*, 164 , 659-664 (2009).
170. C.R. Mohanty, S. Sivaji, B. C. Meikap "Hold-up characteristics of a novel gas-solid multistage fluidized bed reactor for control of hazardous gaseous effluents" *Chemical Engineering Journal* , 148(1), 115- 121(2009).
171. J. N. Sahu, A. V. Patwardhan and B. C. Meikap "Response surface modeling and optimization for production of ammonia from urea in a batch reactor" *Asia Pacific Journal of Chemical Engineering*, 4(4), 462-470 (2009).
172. Gaurav Anand, J.N. Sahu, B.C. Meikap, M.N. Biswas, Characterization of a modified respirable particulate matter sampler, *International Journal of Environmental Pollution Control and Management* 1, 11-21(2009).
173. B. Raj Mohan , B. C. Meikap "Performance Sstudies of the Particulate Scrubbing in a Novel Spray- cum-Bubble Column Scrubber" *Chem. Eng. Res. & Des.*, 87, 109-118 (2009).
174. S. Agarwal , J. N. Sahu, B. C. Meikap and M. N. Biswas "Performance of a modified multi-stage bubble column reactor for lead(II) and biological oxygen demand removal from wastewater using activated rice husk", *Journal of Hazardous Materials*, 161, 317-324 (2009).
175. H. M. Jena, G.K. Roy, B.C. Meikap , "Hydrodynamics of a Gas-Liquid-Solid Fluidized Bed with Hollow Cylindrical Particles" *Chemical Engineering and Processing: Process Intensification*, 48(1), 279-287 (2009).
176. C.R. Mohanty, B.C. Meikap "Pressure drop characteristics of a multi-stage counter-current fluidized bed reactor for control of gaseous pollutants", *Chemical Engineering and Processing: Process Intensification*, 48 , 209–216 (2009).
177. B. Raj Mohan , S. Biswas, B. C. Meikap , " Removal of SO2 from industrial effluents by a novel twin fluid assist atomized spray scrubber" *Industrial & Engineering Chemistry Research*, 47(20)7833–7840 (2008) .
178. C.R. Mohanty, S. Sivaji, B. C. Meikap Hydrodynamics of a multi-stage countercurrent fluidized bed reactor with downcomer for lime-dolomite mixed particle system" *Industrial & Engineering Chemistry Research*, 47, 6917–6924 (2008) .
179. B. Raj Mohan , S. Biswas, B. C. Meikap , "Hydrodynamics Characterization of A Counter-Current Spray Column For Particulate Scrubbing From Flue Gases" *Asia Pacific Journal of Chemical Engineering*, 3 (5), 544-549 (2008) .
180. Mitali Das, B. C. Meikap, R. K. Saha,, A critical analysis on the acceleration length and pressure profile of single particle systems in a circulating fluidized bed" *Asia Pacific Journal of Chemical Engineering*,3(5), 560-571(2008) .
181. H. M. Jena, G.K. Roy, B. C. Meikap " Prediction Of Gas Holdup In A Three-Phase Fluidized Bed From Bed Pressure Drop Measurement" *Chem. Eng. Res. & Des.*, 86(11), 1301-1308 (2008).
182. H.M. Jena, B.K. Sahoo, G.K. Roy, B. C. Meikap "Statistical Analysis of the Phase Holdup Characteristics of a Gas-Liquid-Solid Fluidized Bed" *The Canadian Journal of Chemical Engineering*, 87, 1-10 (2009).
183. B. Raj Mohan , R. Jain, B. C. Meikap " Comprehensive Analysis for Prediction of Dust Removal Efficiency Using Twin-Fluid Atomization in a Spray Scrubber" *Separation and Purification Technology* , 63(2), 269-277 (2008).
184. K Rastogi, J. N. Sahu, B. C. Meikap and M. N. Biswas , "Removal of methylene blue from wastewater using fly ash as an adsorbent by hydrocyclone" *Journal of Hazardous Materials* , 158 , 531-540 (2008).
185. J. N. Sahu, K. Mahalick, A. V. Patwardhan, B. C. Meikap, " Studies on the equilibrium and kinetic studies of hydrolysis of urea for ammonia generation in a semi-batch reactor" *Industrial & Engineering Chemistry Research*, 47 , 4689-4696 (2008).
186. Mitali Das, B. C. Meikap, R. K. Saha,, " Prediction of hydrodynamic properties of mixed particle systems and theoretical analysis of loop pressure profile in a CFB unit" *Industrial & Engineering Chemistry Research*, 47, 4953-4961 (2008) .
187. S. Sarkar , K. Mohanty , B.C. Meikap , "Hydrodynamic modeling of a novel multi-stage gas-liquid external loop airlift reactor", *Chemical Engineering Journal* , 145, 69-77 (2008).
188. Mitali Das, B.C. Meikap, R.K. Saha, "Prediction of cluster diameter for a wide rage of particles for gas-solid dispersed phase in a fast fluidized bed reactor", *Asia Pacific Journal of Chemical Engineering*, 3(2), 223-229 (2008) .

189. Chandra P. Dwivedi , J. N. Sahu, C. R. Mohanty, B. Raj Mohan, B. C. Meikap, "Column performance of granular activated carbon in a packed bed for Pb(II) removal" *Journal of Hazardous Materials*, 156(1- 3) , 596-603 (2008).
190. Mitali Das, B.C. Meikap, R.K. Saha, "Characteristics of axial and radial segregation of single and mixed particle system based on terminal settling velocity in the riser of a circulating fluidized bed" *Chemical Engineering Journal*, 145, 32-43, (2008).
191. Mitali Das, Amrita Bondopadhyay, B.C. Meikap, R.K. Saha, " Axial voidage profiles and identification of flow regimes in the riser of a circulating fluidized bed" *Chemical Engineering Journal*, 145, 249-258, (2008).
192. H.M. Jena, B.K. Sahoo, G.K. Roy, B.C. Meikap, "Characterization of hydrodynamic properties of a gas–liquid–solid three-phase fluidized bed with regular shape spherical glass bead particles" *Chemical Engineering Journal*, 145, 50-56 (2008).
193. R. Gupta, M.D. Kaulaskar, V. Kumar, R. Sripriya, B.C. Meikap, S. Chakraborty, "Studies on the understanding mechanism of air core and vortex formation in a hydrocyclone " *Chemical Engineering Journal*, 144, (2), 153-166 (2008).
194. Mitali Das, B. C. Meikap, R. K. Saha, " Voidage and pressure profile characteristics of sand- iron ore –coal-FCC single particle systems in the riser of a pilot plant circulating fluidized bed" *Industrial & Engineering Chemistry Research*, 147, 4018–4024 (2008).
195. Abhishek Jha, B. Raj Mohan, S. Chakraborty and B.C. Meikap , "Studies On Gas Hold-Up In A Bubble Column Using Porous Spargers With Additives" *Asia Pacific Journal of Chemical Engineering*, 3(4), 417-424, (2008).
196. Biswas, Raj Mohan. B, C. R. Mohanty , B. C. Meikap " Characterization of a high efficiency pilot plant wet scrubber with internals for fly ash removal " *The Open Chemical Engineering Journal*, 1, 100-105 (2008).
197. Raj Mohan , Sanjay Biswas , B. C. Meikap " Performance characteristics of the particulates scrubbing in a counter-current spray-column " *Separation and Purification Technology* , 61 , 96–102 (2008).
198. Sunil K. Roy, K. Mohanty , S. H. Dey, B. C. Meikap , M. N. Biswas "Extraction and Physico-Chemical Characterization of Gel From Aloe vera Leaves By , *Journal of Medicinal and Aromatic Plant Sciences*, 29, 1-5 (2007)
199. B. Raj Mohan , S. Biswas , C. R. Mohanty, B. C. Meikap " Control of air pollutants by a gas-liquid contacting towers " *International Journal of Chemical Science* , 5(4) 1665-1677 (2007).
200. Mitali Das, B. C. Meikap, R. K. Saha " Dry beneficiation of iron ore and coal in a fast fluidized bed- a case study " *International Journal of Chemical Science* , 5(4) 1691-1700 (2007).
201. C. K. Singh, J. N. Sahu, K. K. Mahalik, C. R. Mohanty, B. Raj Mohan, B. C. Meikap " Studies on the removal of Pb (II) from wastewater by activated carbon developed from *Tamarind wood* activated with sulphuric acid " *Journal of Hazardous Materials* , 153(1-2) , 221-228. (2008).
202. H. M. Jena, G. K. Roy, B. C. Meikap " Gas hold-up in a three phase fluidized bed with cylindrical particles" *International Journal of Chemical Science* , 5(4) 1712-1722 (2007).
203. Raj Mohan , S Biswas , , C R Mohanty , B. C. Meikap " Simultaneous Control of Gaseous and Dust Air Pollutants by A Gas-Liquid Contacting Towers " *Process & Plant Engineering* , XXV(2), 28-28 (2007).
204. R. Sripriya , K. Mahadev, S. Chakraborty and B. C. Meikap "Studies on the performance of a hydrocyclone and modeling for flow characterization in presence and absence of air-core" *Chemical Engineering Science*, 66(22), 6391-6402(2007).
205. S. Sarkar , B.C. Meikap , and S.G. Chatterjee " Modeling of removal of sulfur dioxide from flue gases in a horizontal cocurrent gas–liquid scrubber" *Chemical Engineering Journal*, 131, (1-3) 263-271(2007).
206. K. Mohanty, M. Jha , and B. C. Meikap and M. N. Biswas " Biosorption of Cr(VI) from aqueous solutions by *EichhorniaCrassipe* " *Chemical Engineering Journal*, 117, 71-77 (2006) .
207. K. Mohanty, J. Thammunaidu, B. C. Meikap and M. N. Biswas " Removal Of Crystal Violet From Waste Water By Activated Carbons Prepared From Rice Husk" *Industrial & Engineering Chemistry Research*, 44(11); 4128-4138 (2006).
208. H. M. Jena, G. K. Roy and B. C. Meikap " Development and Comparative Study of a Semi-Fluidized Bed Bioreactor for Treatment of Wastewater from Process Industries " *Process and Plant Engineering (Environmental Management)*, 18(1) , 70-75 (2005).
209. K. Mohanty, M. Jha , and B. C. Meikap and M. N. Biswas " Preparation and Characterization of Activated Carbons from Terminalia Arjuna Nut with Zinc Chloride Activation for the Removal of Phenol from Waste Water " *Industrial & Engineering Chemistry Research*, 44(11); 4128-4138 (2005).
210. K. Mohanty, M. Jha , B. C. Meikap and M. N. Biswas " Removal Of Chromium (VI) From Dilute Aqueous Solutions By Activated Carbon Developed From Terminalia Arjuna Nuts Activated With Zinc Chloride" *Chemical Engineering Science*, 60(11), 3049-3059 (2005).
211. B. C. Meikap , N. K. Purohit and V. Mahadevan "Effect of Microwave Pretreatment of Coal for Improvement of Rheological Characteristics of Coal-Water Slurries" *Journal of Colloid and Interface Science*, 281(1), 225-235 (2005).
212. B. C. Meikap and M. N. Biswas " Mesoscale Analysis of Dispersion of Air Pollutants from a Stationary Source" *Process and Plant Engineering (Environmental Management)* 12(2), 62-67 (2004).
213. R. K. Dwari, M. N. Biswas and B. C. Meikap " Performance Characteristics for Particles of Sand-FCC and Fly-Ash in a Novel Hydrocyclone" *Chemical Engineering Science*, 59(3), 671-684 (2004).
214. B. C. Meikap and M. N. Biswas " Fly Ash Removal Efficiency in a Modified Multi-Stage Bubble Column Scrubber" *Separation and Purification Technology*, 36(3), 177-190 (2004), .
215. BhimCharan Meikap, GautamKundu and ManindraNath Biswas "Mass Transfer Characteristics of a Counter Current Multi-Stage Bubble Column Scrubber " *Journal of Chemical Engineering Japan*, 37(10), 1185-1193(2004).
216. B. C. Meikap, G. Kundu and M. N. Biswas "Prediction of Energy Dissipation in a Divergent-Convergent Multi-Stage Bubble Column" *Chemical Engineering Communications*, 191(1), 47-67 (2004),.
217. B. C. Meikap, G. Kundu and M. N. Biswas "A Novel Modified Multi-Stage Bubble Column Scrubber for SO₂ Removal From Industrial Off Gases" *Separation Science and Technology* , 37(15), 3421-3442 , (2002).

218. B. C. Meikap, G. Kundu and M. N. Biswas "Scrubbing of Fly-Ash Laden SO₂ in a Modified Multi-Stage Bubble Column Scrubber" *AIChE. J (American Institute of Chemical Engineers Journal)* 48(8), 2074- 2083, (2002).
219. Bhim C. Meikap, GautamKundu and Manindra N. Biswas "Prediction of Dispersed Phase Hold-up in a Modified Multi-Stage Bubble Column Scrubber" *Canadian Journal of Chemical Engineering*, 80, 306-312,(2002).
220. B. C. Meikap, G. Kundu and M. N. Biswas " Modeling of a Novel Multi-Stage Bubble Column Scrubber for Flue Gas De-sulfurization" *Chemical Engineering Journal*, 86 (3), 331-342 (2002).
221. B. C. Meikap, G. Kundu and M. N. Biswas " Thermal power plants-Pollution control" *Chemical Engineering World*, 37(2), 71-74(2002).
222. B. C. Meikap, G. Kundu and M. N. Biswas " Prediction of the Interfacial Area of Contact in a Variable Area Multi-Stage Bubble Column" *Industrial and Engineering Chemistry Research*, Vol-40(26) , 6194- 6200 (2001).
223. B. C. Meikap, S. Satyanarayan, A. Nag and M. N. Biswas " Scrubbing of Sulfur Dioxide from Waste Gas Stream by Horizontal Co-Current Flow Ejector System" *Indian Journal of Environmental Protection*, 19 (7), 523-529 (1999).
224. B. C. Meikap and G. K. Roy " Removal of Phenolic Compounds from Industrial Waste Water by Semi- Fluidized Bed Bio-Reactor" *Journal of Institution of Public Health Engineers, India*, Vol-3, 54- 61(1997).
225. B. C. Meikap and G. K. Roy " Recent Advances in Bio-Chemical Reactors for Treatment of Waste Water" *Indian Journal of Environmental Protection*, 15 (1), 44-49, (1995).

11. Membership of Professional Societies:

- Fellow, Indian Institute of Chemical Engineers
- Fellow, Royal Society of Chemistry (FRSC)
- Fellow, Institution of Engineers (India) (FIE)
- Member, American Institute of Chemical Engineers (AIChE)
- Member, Institution of Chemical Engineers, UK (MIChemE) and CEng. (2011)
- Member, Canadian Institute of Chemistry (MCIC)
- Member, International Water association (IWA)
- Senior Member, Asia-Pacific Chemical, Biological & Environmental Engineering Society, 2010
- Member, South African Institute of Chemical Engineers(MSAICHE)
- Member, Indian Institute of Chemical Engineers(IChE)
- Member, Indian Society for Technical Education(ISTE)
- Member, Institution of Public Health Engineers, India(IPHE)
- Member, Computer Society of India(CSI)
- Member, Indian Institute of Metals(IIM)
- Member, Indian Ceramic Society(ICS)
- Chartered Engineer (India)

14. Editorial Board Member of Journals:

- Editorial Board Member: Mineral Processing and Extractive Metallurgy Review: Taylor & Francis
- Associate Editor: South African Journal of Chemical Engineering(Elsevier)
- Editorial Advisory Board Member: The Open Chemical Engineering Journal
- Editorial Board Member, Journal of Fluids
- Editorial Board Member: International Journal of Bio-Sciences and Technology
- Editorial Board Member : Research Journal of Environmental Sciences
- Associate Editor: WSEAS Transactions on Fluid Mechanics
- Editorial Board Member: Environmental Science and Engineering Technology, Savvy Science (2015)

15. Reviewer of Journals:

AIChE J	Korean J. of Chemical Engg.	Int. J. of Coal Preparation
Chemical Engineering Science	J. of Industrial Engineering Chemistry	Colloids and Sur. A. Physico. & Eng. Aspects
Separation and Purification Technology	Chemical Eng. & Processing	J. of Loss Prevention in the Process Industries
Chemical Engineering Journal	J. of Chemical & Eng. Data	Process Safety and Environmental Protection
Industrial & Eng. Chem. Res.	Canadian J. of Chemical Engg.	Fuel
Powder Technology	Separation Science & Technology	Particulate Science & Technology
Environmental Science & Technology	Desalination	Atmospheric Environment
Journal of Hazardous Materials	South African J. of Chemical Eng.	J. of Environmental Management
Fuel Processing Technology	Chemical Eng. Research & Design	Bioresource Technology
Journal of Cleaner Production	Energy & Fuels	Advanced Powder Technology

16. Chaired the technical sessions at international /national seminar/conferences

- CHEMCON 2015 held at IIT Guwahati during December 27-31, 2016.
- 2013 Bangkok Int. Conference on Biological Engineering and Natural Sciences.
- National Conference on Frontiers in Chemical Engineering, (NCFCE-2007) IIT Guwahati India.
- International Conference on Impact of Industrialization on Environmental Pollution- Its Control and Abatement (ICIIEPC-2006), India.
- International Conference on Environmental Management (ICEM-2005), India.
- National Seminar for Young Scientists and Engineers, 2004, India.
- All India Seminar On Emerging Technologies For Sustainable Environment In Chemical And Allied Industries, 2004, India
- 56Th. Annual Session of Indian Institute of Chemical Engineers (CHEMCON), 2003 India
- National Seminar on Utilization of Forest Resources for Sustainable Development, India, 2003.
- National Convention of Institution of Public Health Engineers, 2002, India.

17. Technical papers presented at national and international conferences: >100

18. Organization of national seminar/conferences /workshops: 07

- ❖ Chemical Engineering Congress (CHEMCON-2003) and 56Th. Annual Session of Indian Institute of Chemical Engineers, Organized jointly by Regional Centers of Rourkela, Bhubaneswar and Damajuri to be held at Bhubaneswar, Dec 19-22, 2003 as Joint Organizing Secretary.
- ❖ National Convention of Institution of Public Health Engineers, Rourkela, Feb. 1-3, 2002 as Organizing Committee Member.
- ❖ National Seminar on "Utilization of Mineral Resources for Sustainable Development" (CHEMINAR-2001), Bhubaneswar, Feb. 11-12, 2001 as Organizing Committee Member.
- ❖ Chemical Engineering Congress (CHEMCON-2000), Calcutta, Dec 18-21, 2000 as LOC, Member.
- ❖ All India seminar on "CHEMICAL ENGINEERING FOR BETTER TOMORROW" Nov, 9-10, 2001; as Organizing Secretary.
- ❖ All India seminar on "CHEMICAL INDUSTRIES VIS -A- VIS ECO - FRIENDLINESS" Nov, 2-3, 1996; as Convener.
- ❖ All India seminar on "DISASTER MANAGEMENT IN CHEMICAL AND ALLIED INDUSTRIES" Nov., 11- 12, '95; as Convener.

19. Invited lectures:

- Invited Lecture 'Management and Control of Fly-Ash from the Flue Gas of Coal Fired Thermal Power Plant' hosted by Guwahati Regional Centre of IChE and Department of Chemical Engineering, IIT Guwahati, October 2015.
- Invited Lecture at Tata Steel Jamshedpur, Sept. 2015.
- Keynote speech in the seminar for "World Environment Day" celebration on 5th June, 2015 at Sai Suphonates Pvt. Ltd., Kalaikunda
- Fugitive Dust Emission Control in Sponge Iron Plants, IIT Roorkee, December 30, 2013.
- National workshop on "Theory and practice of Separation Processes including Modern Techniques" at HRC of IChE, Haldia, 2013.

- Keynote lecture at International Conference on Environment, Civil and Building Materials (2011 CEBM), Kunming, China , 2011.
- Foundation Day Ceremony-Cum-Silver Jubilee Function of the State Pollution Control Board, Odisha, 2009.
- Air Pollution Control In Chemical Process Industries By Wet Scrubbing Process JITM, Paralakhemundi for National Conference on Technology For Sustainable Utilization of Natural Resources (Tech SUNR 2007), Feb 24-25,2007.
- Keynote Lecture , National Conference on" Pollution Control in Chemical and Related Industries Stanley College of Engineering and Technology, Hyderabad , November 3-5, 2006
- Guest of Honor, GIET , Gunupur, International Conference on " Impact of Industrialization on Environmental Pollution -Its Control Abatement , 2006.

20. Subjects Taught:

Industrial Pollution Control
 Fuels and Combustion
 Chemical Process Calculation
 Hazardous Waste Technology and Management
 Disaster Management in Chemical Process Industries
 Heat Transfer
 Environmental Science and Technology

21. Countries visited:

Japan	Switzerland	South Africa	Taiwan
Singapore	Bangladesh	Greece	Bhutan
Malaysia	Thailand	China	United Arab Emirates
Germany	Austria	Scotland	United Kingdom

22. Distribution of number of publication in different journal

Name of the Journal	Number of publications
Journal of Hazardous Materials	11
AIChE Journal	01
Chemical Engineering Science	04
Industrial & Engineering Chemistry Research	15
Chemical Engineering Journal	11
Separation and Purification Technology	03
Chemical Engineering and Processing	04
Chemical Engineering Research and Design	3
Desalination	01
Powder Technology	04
Fuel Processing Technology	02
Mineral Processing and Extractive Metallurgy Review	02
International Journal of Coal Preparation and Utilization	03
Asia Pacific Journal of Chemical Engineering	06
Bioresource Technology	01
CLEAN- Soil, Air , Water	02
Canadian Journal of Chemical Engineering	02
Journal of Industrial and Engineering Chemistry	03
Korean Journal of Chemical Engineering	04
Journal of Chemical Engineering Japan	01

23. Sponsored Research and Consultancy Projects

Project Title(Code) & Sponsor	Date of Commencement and Completion	Total Sanctioned Grant(Rs.)
UP-GRADATION OF HIGH ASH INDIAN COAL THROUGH PHYSICAL AND CHEMICAL BENEFICIATION (GIP), Coal India Ltd.	From 01-10-2021 To 31-12-2024	12189000/=
GHG EMISSION INVENTORY AND REDUCTION OF CHALIYAMA STEEL PLANT (IRCP), RUNGTA MINES	From 01-04-2021 To 31-12-2025	398250/=
EFFICIENCY OF ETP WITH FEASIBILITY OF ZLD DURING NON-MONSOON AND SURFACE RUN-OFF AT PPL PARADEEP (ZNOR) PARADIP PHOSPHATE LIMITED	From 01-06-2024 To 31-05-2027	6490000/=
TECHNICAL SUPPORT FOR INSTALLATION OF DE-DUSTING UNITS AT RASHMI GREEN HYDROGEN STEEL PVT LTD (SGRP) RASHMI METALIKS	From 01-07-2024 To 30-06-2027	1189440/=
VERIFICATION-ENVIRONMENTAL AUDIT REPORTS OF RASHMI GROUPS (VERG) RASHMI METALICKS	From 22-08-2024 To 31-08-2027	590000/=
TECHNICAL CONSULTANCY PROJECT ON CATALYST FOR PETROLEUM INDUSTRY (TCPI)	From 02-12-2024 To 01-12-2025	767000/=
TECHNICAL GUIDANCE FOR SMOOTH START-UP OPERATION OF CHARCOAL PLANT (GSOP) RML	From 01-03-2025 To 28-02-2029	1817200/=
HYDRO- GEOLOGICAL STUDY OF THE PROPOSED PROJECT THERMAL POWER PLANT 2X800 AT SALBONI (PPPP) JSW ENERGY	From 01-07-2025 To 31-12-2025	1380600/=
CARRYING CAPACITY (CC) AND SOURCE APPORTIONMENT (SA) STUDY IN OPA KORBA OF CHHATTISGARH STATE (CASK), CECB, C.G.	From 01-04-2021 To 31-12-2025	17717700/=
CARRYING CAPACITY (CC) AND SOURCE APPORTIONMENT (SA) STUDY IN CPA SILTARA INDUSTRIAL AREA, RAIPUR OF CHHATTISGARH STATE (CCSR), CECB , C.G.	From 01-04-2021 To 31-12-2025	17717700/=
CARRYING CAPACITY (CC) STUDY IN OPA BHILAI-DURG OF CHHATTISGARH STATE (CSOS), CECB, C. G.	From 01-05-2021 To 31-12-2025	17717700/=
SLIME MANAGEMENT, RISK ASSESSMENT AND DISASTER MANAGEMENT PLAN OF 10BP OF M/S RUNGTA MINES LTD. (SMRD) RUNGTA MINES LTD.	From 01-10-2021 To 31-12-2025	1035450/=
ENVIRONMENTAL ASSESSMENT OF AIR POLLUTION CONTROL EQUIPMENTS INSTALLED AT RASHMI METALIKS LTD. (ACIR) OMPL	From 01-04-2022 To 31-12-2025	1380600/=
PERFORMANCE EVALUATION OF ESP INSTALLED AT SINTER PLANT OF M/S TATA STEEL , KALINGANAGAR (PEDS), TATA STEEL LTD.	From 01-06-2023 To 30-11-2025	1062000/=
FEASIBILITY OF EXTRACTING VOLATILE ORGANIC COMPOUND FROM DIGESTION RELIEF TANK AS AN ALTERNATIVE FUEL (EVCA), UTKAL ALUMINIUM	From 01-07-2023 To 31-12-2025	578200/=
RESEARCH AND DEVELOPMENT FOR RESOURCE EFFICIENCY OF CHALIYAMA STEEL PLANT (RRE), RUNGTA MINES LTD.	From 20-01-2021 To 19-01-2026	2389500/=
POLLUTION CARRYING CAPACITY AND SOURCE APPORTIONMENT STUDY IN CPA RAIPUR OF CHATTISGARH STATE (PNR), CECB, C. G.	From 01-03-2021 To 31-12-2025	17717700/=

GLOBAL INITIATIVE OF ACADEMIC NETWORK (GIAN-II) (GNG) MOE	From 06-12-2021 To 05-12-2026	10000000/=
INDO-BELGIAN NETWORK ON ENHANCING THE BIOTECHNOLOGICAL POTENTIAL OF MICROALGAE (ALGONET) (BPM), DBT	From 23-07-2024 To 22-07-2027	185000/=
SERVER MAINTENANCE AND USER CHARGES (GIAN) (GNG-1) MOE	From 21-01-2022 To 20-01-2027	30000000/=
INDO-BELGIAN NETWORK ON ENHANCING THE BIOTECHNOLOGICAL POTENTIAL OF MICROALGAE (ALGONET) (BPM), DBT	From 23-07-2024 To 22-07-2027	2892120/=
SCIENTIFIC STUDY FOR SLOPE STABILITY ASSESSMENT AND BLAST VIBRATION STUDY OF PARSU GOLD DEPOSIT OF M/S RUNGTA MINES LIMITED OVER AND AREA OF 75.273 HA., DISTRICT-RANCHI, JHARKHAND (ABVP), Rungta Mines	From 30-04-2019 To 31-07-2019	1472640/=
TECHNICAL SUPPORT AND GUIDANCE TO IMPROVE QUALITY OF LEAD ACID BATTERY (QALB) (QALB),	From 28-02-2011 To 31-12-2012	25000/=
ENVIRONMENTAL IMPACT ASSESSMENT OF OPENCAST COALMINES AND THERMAL POWER STATIONS, KORBA, CHHATTISGARH (EOCC), CECB, C. G.	From 16-08-2019 To 31-07-2023	4816000/=
MONITORING IN CRITICALLY POLLUTED AREA (CPA) KORBA OF CHHATTISGARH FOR ASSESSMENT OF COMPREHENSIVE ENVIRONMENTAL POLLUTION INDEX (CEPI), CECB, C. G.	From 01-05-2014 To 30-04-2015	3035000/=
IMPROVEMENT OF BENZYL ALCOHOL PRODUCTION PROCESS (IBAP)	From 01-12-2019 To 01-12-2020	1354050/=
ADEQUACY ASSESSMENT OF ETP AND APCD (AATP), G D Papers	From 01-01-2020 To 30-06-2021	418250/=
REVIEW OF PROPOSAL SUBMITTED BY HPCL FOR LAND REQUIREMENT FOR SETTING UP A HYDROCARBON PROCESSING COMPLEX NEAR THE PROPOSED SUBARNAREKHA PORT, BALASORE (RNSP), Govt. Of Odisha	From 24-12-2019 To 23-02-2020	1180000/=
ADEQUACY OF ESP-1 AT JINDAL INDIA THERMAL POWER LIMITED (JITL), JIPL	From 01-03-2020 To 31-12-2023	1242540/=
HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL FOR AMMUNITION STORAGE AND PREPARATION IN PXE CHANDIPUR (AASC), DRDO	From 14-12-2015 To 13-12-2017	999013/=
HAZARD IDENTIFICATION AND RISK ASSESSMENT (HIRA), EMERGENCY PLAN AND DISASTER MANAGEMENT PLAN FOR DHENKANAL STEEL PLANT (HIRA), Rungta Mines Ltd.	From 10-07-2020 To 31-12-2023	1194750/=
ENVIRONMENTAL ASSESSMENT OF AIR POLLUTION CONTROL EQUIPMENTS INSTALLED AT B. S. SPONGE PVT. LTD., RAIGARH (EISL), B S Sponge	From 01-08-2020 To 31-12-2023	1569105/=
CO2 EMISSION MANAGEMENT AT IVL DHUNSERI PETROCHEM INDUSTRIES PVT. LTD. HALDIA (EMDH)	From 01-11-2020 To 31-12-2021	767000/=
VERIFICATION OF CAPTIVE POWER GENERATION PROCESS FROM WASTE GAS (NON-FOSSIL FUEL) OF CARBON BLACK MANUFACTURING PLANT OF PCBL DURGAPUR (NFFD)	From 01-12-2020 To 31-12-2021	306800/=
POLLUTION LOAD CARRYING CAPACITY IN JANJIR - CHAMPA REGION (CCCR), CECB, C.G.	From 01-03-2016 To 31-12-2022	10000000/=
STACK EMISSION MONITORING OF ESP INSTALLED WITH BOILER OF UNIT-1 OF JINDAL INDIA THERMAL POWER PLANT (EBIP)	From 01-03-2021 To 31-12-2022	230100/=

RANDOM VERIFICATION OF ANNUAL INVENTORY ON HAZARDOUS WASTE MANAGEMENT (RVWM), CPCB	From 01-09-2021 To 30-06-2022	797680/=
POLLUTION LOAD CARRYING CAPACITY IN RAIGARH REGION (PLCR), CECB, C. G.	From 01-04-2016 To 31-12-2022	10000000/=
ASSESSMENT OF HIGH PM EMISSIONS FROM HP-HOH SCRUBBER STACK (HEHS), MCPI	From 01-04-2022 To 30-06-2024	826000/=
DECARBONIZATION STUDY OF CHALIYAMA STEEL PLANT OF RUNGTA MINES LTD. (DSSR)	From 01-07-2022 To 01-07-2025	885000/=
FINDING NEW APPLICATIONS OF LPG (FNAL), Dhunseri	From 01-08-2022 To 31-07-2023	552240/=
RECEIVING CSR FROM SAI KRIPA REAL ESTATE PVT. LTD (RSKR)	From 01-02-2023 To 31-07-2023	500000/=
ASSESSMENT OF THE SPIRIT ACCOUNTING SYSTEMS AT VARIOUS FL MANUFACTORIES AND CS BOTTLING PLANTS OF WEST BENGAL (ASFB), Excise Dept., Govt Of West Bengal	From 01-04-2023 To 01-04-2025	1357000/=
TECHNICAL FEASIBILITY STUDY OF UTILIZATION OF EXISTING CPP BOILER STACK FOR SULPHURIC ACID PLANT (SUSP)	From 01-10-2024 To 30-09-2025	1227200/=
VETTING OF STP DESIGNS (VESE), Ecokart.	From 15-09-2024 To 14-09-2025	118000/=
WATER RESERVOIR CONCEPT DESIGN (WRCT), RML	From 01-01-2025 To 31-03-2025	767000/=
STUDIES ON ENHANCEMENT OF QUALITY OF COAL TAR (SEQT) Tata Steel	From 01-03-2016 To 31-03-2017	1764016/=
POLLUTION CONTROL DEVICES IN CHALIYAMA STEEL PLANT (PECD)	From 01-06-2016 To 31-12-2018	541013/=
VERIFICATION OF FLUORIDE REMOVAL PROCESS FROM RO-REJECT WATER BY USING ALUMINA (RRUA), Aditya Aluminium Ltd	From 01-09-2016 To 31-12-2021	1035000/=
PERFORMANCE EVALUATION OF DUST SUPPRESSION SYSTEM (PDSS), SPCB, Odisha	From 01-12-2016 To 31-12-2017	194063/=
EFFICIENCY EVALUATION OF AIR POLLUTION CONTROL EQUIPMENTS AT ESSAR STEEL INDIA LIMITED, PARADEEP (EEPI)	From 01-01-2017 To 31-12-2019	316250/=
MONITORING CRITICALLY POLLUTED AREA (CPA) KORBA OF CHHATTISGARH FOR ASSESSMENT OF COMPREHENSIVE ENVIRONMENTAL POLLUTION INDEX (MKAP), CECB, C. G.	From 01-03-2017 To 31-12-2022	5290000/=
TECHNICAL EXPERTISE FOR SETTING-UP A BIO-GAS UNIT (ESGU)	From 01-02-2017 To 31-12-2018	23000/=
DESIGN OF BUBBLE COLUMN WITH EXTERNAL BUBBLE GENERATOR (BCEB), Tata Steel	From 01-11-2007 To 31-10-2008	674160/=
FEASIBILITY STUDY FOR ISO-KINETIC STACK SAMPLING IN EXISTING STACKS OF KOLAGHAT THERMAL POWER STATION (SSKT)	From 01-04-2017 To 31-12-2017	291525/=
CAPACITY ADEQUACY EVALUATION OF BAG FILTERS OF COKE OVEN PLANT AT NEELACHAL ISPAT NIGAM LIMITED (BONL)	From 01-05-2017 To 31-12-2022	1863000/=

STUDY OF POLLUTION CAUSED BY COAL BASED THERMAL POWER PLANT (CBTPP) IN RAIGARH REGION (PCBT), CECB, C. G.	From 01-06-2017 To 31-12-2020	1035000/=
STUDY OF POLLUTION CAUSED BY COAL BASED THERMAL POWER PLANT (CBTPP) IN JANJGIR - CHAMPA REGION (SCBP), CECB, C. G.	From 01-06-2017 To 31-12-2021	1035000/=
TECHNICAL SUPPORT TO CONSTRUCT A BIO-GAS DIGESTER BASED ON POULTRY LITTER (TBPL)	From 01-08-2017 To 31-12-2020	22425/=
EVALUATION OF FLUORIDE REMOVAL PROCESS IN FUME TREATMENT CENTRE (FTC) OF ANODE BAKING FURNACE IN SMELTER BY USING RO-2 REJECTS (PFBR), Hindalco, Aditya Aluminium	From 01-09-2017 To 31-03-2024	1062000/=
DESIGN VERIFICATION AND CRITICAL ANALYSIS OF BAG FILTERS INSTALLED AT SPONGE IRON PLANT IN ORISSA (CABF)	From 01-06-2008 To 30-11-2008	1182000/=
VERIFICATION OF EFFICIENCY OF BAG FILTERS INSTALLED AT LIME CALCINATION PLANT AT M/S. TATA STEEL LIMITED (ILST)	From 01-09-2017 To 31-03-2021	920400/=
STUDY OF ENVIRONMENTAL PARAMETERS OF FLY-ASH DYKE (SPED)	From 01-07-2017 To 31-12-2017	826000/=
CLARIFICATION OF SPENT SULFURIC ACID BY ADDING A SUITABLE FLOCCULENT AND REMOVAL OF COLOR (CSAC)	From 03-10-2017 To 03-03-2018	557550/=
VERIFICATION OF BAG FILTER SYSTEM AT M/S MAITHAN ISPAT LTD. (SMMI)	From 01-04-2012 To 30-06-2013	148905/=
GREEN HOUSE GAS EMISSION INVENTORY IN POWER PLANT (GHIP)	From 01-07-2018 To 31-03-2021	159300/=
PERFORMANCE AND ADEQUACY EVALUATION OF POLLUTION CONTROL DEVICES INSTALLED AT SMS AND FAP (EPIF), Shyam Metalicks	From 01-09-2018 To 31-12-2023	1911600/=
GHG EMISSION INVENTORY AND REDUCTION OF KAMANDA INTEGRATED STEEL PLANT (GERP)	From 01-10-2018 To 31-12-2022	398250/=
GREEN HOUSE GAS EMISSION INVENTORY AND REDUCTION OF THE SAME FOR CHALIYAMA STEEL PLANT (GRSP)	From 01-12-2018 To 31-12-2022	398250/=
PERFORMANCE EVALUATION OF BAG FILTERS SYSTEM OF SPONGE IRON PLANTS IN ORISSA PHASE-II (PEBF)	From 01-09-2008 To 31-10-2009	730340/=
FIELD DEMONSTRATION OF LOW COST LATERITE BASED ARSENIC FILTER-COMMUNITY SCALE (FCAS) DST	From 01-08-2012 To 01-08-2013	1344863/=
REDUCTION OF WATER CONSUMPTION IN THE WASHING-CLASSIFICATION OF FINISHED BEADS (RWCB)	From 18-02-2019 To 17-08-2019	796500/=
PREPARATION OF PART OF EIA/EMP REPORT FOR PARASI GOLD DEPOSIT OF M/S RUNGTA MINES LTD. (GMRL)	From 29-03-2019 To 31-12-2022	1687400/=
PERFORMANCE EVALUATION OF BAG FILTER SYSTEM OF M/S-AARTI STEEL LTD. (EBAS)	From 01-12-2012 To 31-12-2013	204776/=
VERIFICATION OF BAG FILTER AT REXON STRIPS LIMITED (VBSL)	From 01-06-2013 To 30-05-2015	104290/=
PHOTOCATALYTIC WATER PURIFICATION (PYW), University Of Edinburgh, UK	From 01-02-2019 To 31-07-2023	60000/=

PERFORMANCE EVALUATION OF BAG FILTERS SYSTEM INSTALLED AT SPONGE IRON PLANTS OF ORISSA PHASE-II (PEO) SPCB, Odisha	From 01-09-2008 To 31-08-2009	1147677/=
HYDROHYNAMIC STUDY OF VORTEX AND AIR CORE FORMATION IN A TWO PHASE FLOW FOR SIMPLE GEOMETRIES (FSG) Tata Steel	From 15-11-2005 To 30-04-2006	220000/=
PERFORMANCE STUDY OF A HYDROCYCLONE (HDR) Tata Steel	From 01-08-2006 To 31-07-2007	800000/=
HYDRODYNAMICS STUDIES ON MICRO BUBBLE GENERATORS (MBG) Tata Steel	From 01-08-2006 To 31-01-2007	300000/=
STUDIES ON EFFECTIVE USE OF MICROWAVE ENERGY FOR GREEN MINERAL BENEFICIATION AND PIPELINE SLURRY TRANSPORT (MEG), CSIR	From 01-06-2006 To 31-05-2009	1146000/=
AMMONIA PRODUCTION BY USING UREA FOR FLUE GAS CONDITIONING (FGC), NTPC	From 01-01-2006 To 30-09-2015	6500000/=
NATIONAL BIOGAS AND MANURE MANAGEMENT PROGRAMME (NBMMMP) (GAS), MNRE	From 23-02-1987 To 31-03-2013	1152000/=
DEVELOPMENT AND CHARACTERIZATION OF A HIGH EFFICIENCY WET SCRUBBER WITH INTERNALS FOR AIR POLLUTION CONTROL (APC), CSIR	From 25-11-2004 To 30-11-2007	300000/=
PRODUCTION OF SYNTHESIS GAS AND ITS CLEAN PROCESSING BY A MULTI-STAGE WET SCRUBBER (PSG), DST	From 20-02-2012 To 19-02-2015	1035000/=
FIELD TRIAL OF LOW COST LATERITE BASED ARSENIC FILTER: DOMESTIC AND COMMUNITY SCALE (LLA), DST	From 05-03-2012 To 04-09-2013	1999240/=
PERFORMANCE CHARACTERIZATION OF A HYDROCYCLONE WITH INTERNALS FOR SEPARATION OF FINE PARTICLE (CHF), Tata Steel Ltd.	From 01-04-2012 To 31-03-2015	1928000/=
AN INTEGRATED GREEN PROCESS FOR BIOLOGICAL CARBON SEQUESTRATION COUPLED WITH DOMESTIC SEWAGE REMEDIATION BY ALGAE IN CLOSED PHOTO BIOREACTOR AND SUBSEQUENT UTILIZATION OF BIOMASS AS BIOFERTILIZER (IGG), DBT	From 02-09-2013 To 01-09-2016	2700400/=
SETTING UP BIO-GAS PRODUCTION PLANTS (15 NOS.) USING DIFFERENET WASTE MATERIAL IN RURAL AREAS (GNW), Min. Of Social Justice	From 01-04-2017 To 31-03-2020	1196000/=
MASS CULTIVATION OF MICROALGAE FOR THE PRODUCTION OF HIGH VALUE BIOFUEL FRACTIONS THROUGH HYDROTHERMAL LIQUEFACTION (PROJECT ID.:7698) (PVL), DBT	From 01-09-2017 To 31-01-2021	6568000/=
CO2 ADSORPTION IN A MULTI-STAGE FLUIDIZED BED REACTOR BY MODIFIED ACTIVATED CARBON (MRM), CSIR	From 01-12-2017 To 30-11-2020	1519048/=
PERFORMANCE EVALUATION OF BAG FILTERS SYSTEM INSTALLED AT SPONGE IRON PLANT IN ORISSA FIELD INVESTIGATION (BFS), SPCB, Odisha	From 01-05-2008 To 31-12-2011	3200000/=
RURAL WATER QUALITY AND MANAGEMENT (RQM), University Of Edinburgh, UK	From 01-02-2019 To 30-09-2019	710400/=
SOCIALIZING THE MICRO-SOLAR DOME: EMPOWERING MARGINALIZED RURAL SC COMMUNITIES THROUGH SOLAR ILLUMINATION AND SOLAR ELECTRICITY (ERI) DST	From 29-03-2019 To 13-12-2023	47294000/=
SOCIALIZING THE MICRO-SOLAR DOME: EMPOWERING MARGINALIZED RURAL ST AND TRIBAL COMMUNITIES THROUGH SOLAR ILLUMINATION AND SOLAR ELECTRICITY (EZI) DST	From 29-03-2019 To 15-02-2024	68498000/=

DOCUMENTATION OF SUCCESSFUL CASE STUDIES OF WATER CONSERVATION UNDER MGNREGS (CWM), Min. Of Panchayatraj And Rural Development	From 01-07-2019 To 30-11-2019	1050000/=
SEPARATION OF MACERALS FROM NON-COKING COAL FOR BLAST FURNACE USE (NBF), Tata Steel Ltd.	From 01-11-2019 To 31-12-2023	2065000/=
RURAL DRINKING WATER TREATMENT AND HEALTH (DWT), University Of Edinburgh, UK	From 01-01-2020 To 31-12-2024	926000/=
UKIERI STUDY IN INDIA (SII1937) (KSI), University Of Edinburgh, UK	From 01-01-2021 To 31-12-2023	367200/=
UP-GRADATION OF HIGH ASH INDIAN COAL THROUGH PHYSICAL AND CHEMICAL BENEFICIATION (GIP), Coal India Ltd.	From 01-10-2021 To 31-12-2024	12189000/=

Declaration: Data and information presented in this document are true and correct to the best of knowledge.

Date: 11-12-2025

(Prof. B. C. Meikap)