

TONMOY KUNDU, M.Tech

Scientist

Mineral Processing Department

CSIR - Institute of Minerals and Materials Technology, Bhubaneswar

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Date of Birth: 29.04.1988 Gender: Male Marital Status: Married



EDUCATIONAL ATTAINMENTS

Dr. Bidhan Chandra Roy Engineering College, Durgapur **2010**
B.Tech in Mechanical Engineering (West Bengal University of Technology) ***Topper***

Indian School of Mines, Dhanbad **2012**
M.Tech in Mineral Engineering ***Gold Medalist***
Thesis : “ Beneficiation of Low Volatile Medium Coking Coal and its coke making properties of Kusunda area, Dhanbad ”

AWARDS

Received ***Gold Medal*** from Honourable Shree Montek Singh Ahluwalia (Dy. Chairman, Planning Commission, Govt. of India) for securing 1st rank in M.Tech (Mineral Engg.) at ISM – Dhanbad.

EMPLOYMENT DETAILS

CSIR- Institute of Minerals and Materials Technology, Bhubaneswar
Scientist (Mineral Processing Department) **25.01.16 – till date**

Larsen and Toubro Limited, Kolkata
Asst. Engineering Manager (Metallurgical & Material Handling Div.) **01.01.15 – 22.01.16**
Sr. Design Engineer (Metallurgical & Material Handling Div.) **19.09.13 – 31.12.14**

McNally Bharat Engineering Co. Limited, Kolkata
Associate Manager (Mineral Processing Strategic Business Unit) **01.07.13 – 18.09.13**
Executive Trainee (Mineral Processing Strategic Business Unit) **02.07.12 – 30.06.13**

EXPERTISE

Tonmoy Kundu is having research as well as industrial experience in the field of mineral processing. He qualified GATE and pursued post-graduation (M.Tech) from Indian School of Mines, Dhanbad in the field of Mineral Engineering. His M.Tech research work thesis comprise studies on the behavioural response of the low volatile medium coking coal particles to two different unit operations; flotation and gravity concentration, with respect to the different operating and design variables. He was awarded the Gold Medal for securing 1st rank in the department.

After the completion of M. Tech course, Mr. Kundu joined the Mineral Processing – SBU of McNally Bharat Engineering Co. Limited (MBECL), Kolkata. Later, he joined the Metallurgical and Material handling division of Larsen and Toubro Limited (L&T), Kolkata. During his industrial work span of around three and half years (in total), he was responsible for analysis of the test reports, process equipment selection and sizing, preparation of process flow diagram cum mass balance, floating of equipment enquiry specifications followed by technical evaluation of the vendor offers, preparation of technical offer write-up, etc. of various coal and mineral processing plant project proposals.

Mr. Kundu joined CSIR-Institute of Minerals and Materials Technology, Bhubaneswar as Scientist in the year 2016. Presently, he is working on process flowsheet development for the beneficiation of low and lean grade ores produced as a result of different mining/mineral processing operations through conventional as well as advanced beneficiation techniques.

PUBLICATIONS

Presentations in Seminars/Conferences

- **T. Kundu**, P. C. Beuria, A. K. Sahu and S. K. Biswal, ‘Study on Material Characteristics of Iron Ore Sinter’ presented at International Seminar on Mineral processing Technology (MPT-2017), Chennai held from 1st – 3rd February, 2017.
- **T. Kundu**, P. C. Beuria, A. K. Sahu and S. K. Biswal, ‘Recovery of Iron from Red Mud Pellets by Reduction Roasting and Magnetic Separation’ presented at National Conference on Waste to Wealth in Mineral and Metallurgical Industries (WMMI–2018), Bhubaneswar held from 9th – 10th March, 2018.

PROJECTS - CONTRIBUTED AS A TEAM MEMBER AT CSIR IMMT

1. Study on iron ore sinter material characteristics to design chute for transporting by conveyor belt (2016).
Sponsored by M/s Tega Industries, Kolkata
2. ROM characterization for 6MTPA mechanized production & evacuation for Kurmitar iron ore Mines, Odisha (2016).
Sponsored by M/s Odisha Mining Corporation, Bhubaneswar
3. Coal quality analysis of dipside Manoharpur Coal Block, Odisha (2016-2017).
Sponsored by M/s Odisha Coal and Power Limited, Bhubaneswar
4. Study on effect of different spiral designs in trommel on ball mill discharge (2017).
Sponsored by M/s Tega Industries, Kolkata
5. Fabrication, installation, commissioning of Column Flotation test rig for beneficiation of coal fines at CIMFR-Dhanbad (2015-2017).
6. Characterization & beneficiation of low grade PGE ores of Bangur Mine Lease of OMC Ltd. (2016-2020).
Sponsored by M/s Odisha Mining Corporation, Bhubaneswar
7. Characterization and beneficiation studies on hematite I/O from Sagasahi Mine, Odisha (2017-2018).
Sponsored by M/s Essar Steel, Paradeep
8. Optimization study of chromite beneficiation plant (2017-2018).
Sponsored by M/s Jindal Steel Limited
9. Maximize the recovery of iron values from low grade iron ore by reduction roasting and pelletization of high LOI and high Blaine number iron ore fines (2016-2018).
10. Process development for production of flaky graphite, high purity graphite and graphene from natural graphite (2016-2018).

PROFESSIONAL SOCIETY MEMBERSHIP

- Life Member of Indian Institute of Mineral Engineers (IIME), Bhubaneswar
- Life Member of Indian Institute of Metals (IIM), Bhubaneswar
- Life Member of Society of Geoscientists and Allied Technologists (SGAT), Bhubaneswar

Place: Bhubaneswar

(Tonmoy Kundu)