



BIOGRAPHY

Dr. Patitapaban Sahu is presently working as an **Associate Professor in the Department of Mining Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad**. He did his B.Tech in Mining Engineering in 2010 from the National Institute of Technology (NIT), Rourkela, Odisha, India. He obtained his Ph.D. in Mining Engineering in 2015 from the Indian Institute of Technology (Indian School of Mines), Dhanbad (IIT-ISM Dhanbad). After graduating from NIT, Rourkela; he served as Graduate Engineer Trainee in UltraTech Cement, Aditya Birla, for one year. His research areas are mainly focused on mine ventilation, mine fire, coalbed methane (CBM), monitoring of radiation level in mines, and other areas related to mine environmental engineering. He has published one book and 35 research papers, out of which 22 are in reputed international/national journals indexed in SCI and Scopus, and 13 in conference proceedings. He has successfully executed three (03) R& D projects received from Science and Engineering Research Board (SERB) of Government of India, Technical Education Quality Improvement Programme (TEQIP) of Government of India, Faculty Research Scheme of IIT-ISM Dhanbad as a Principal Investigator (PI). He has also executed 17 Industry sponsored projects as Co-CI and member for solving the real-life problems of different coal and metal mines. He guided 1 PhD student, 8 postgraduate students and many undergraduate students in the area of mine safety. He is presently guiding three Ph.D. students on the mine ventilation and mine fire topics. He reviewed one R&D project received from the Department of Science & Technology (DST-SERB), Govt. of India, and various research papers received from 10 different reputed journals. He has been conferred the following awards:

- MGMI Award of Excellence for Non Coal Mining - for Outstanding Contribution in Non Coal Mining Industry for the year 2024-2025 on 27.09.2025.
- Canara Bank Research Publication Award-2015 for the Department of Mining Engineering on the occasion of 90th Foundation Day of erstwhile Indian School of Mines, Dhanbad in 2015
- International travel support scheme (ITS) from DST, Government of India in 2014
- Students' International Travel (SIT) Grant Scheme from ISMAA, erstwhile Indian School of Mines, Dhanbad, in 2014.

Area of Interests

Mine ventilation, Mine environment engineering, Radiation monitoring, Coalbed Methane

Curriculum Vitae of Dr Patitapaban Sahu

I. NAME: Dr. Patitapaban Sahu

II. FATHER'S NAME: Shri Hadu Sahu

III. MOTHER'S NAME: Mrs. Mamata Sahu

IV. EMPLOYEE ID: 1091

V. CONTACT ADDRESS: Department of Mining Engineering
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VI. DATE OF BIRTH: 05/05/1986

VII. WHETHER BELONGS TO 'SC/ST/OBC/PH': None

VIII. ACADEMIC QUALIFICATION

Examination	Board	Year of passing	Institution	Remarks
PhD (Mining)	Autonomous	2015 (Awarded)	Indian Institute of Technology (ISM), Dhanbad, Jharkhand	-
B.Tech (Mining)	Deemed University	2010	National Institute of Technology, Rourkela, Odisha	1 st division

IX. RESEARCH INTEREST

- Mine ventilation and environment engineering
- Mine dust and its control
- Modelling of heat flow in underground mines
- Radiation monitoring in mines
- Coalbed Methane and ventilation air methane
- Data analytics in mining.

X. COURSES TAUGHT/TEACHING

Undergraduate

1. Coalbed methane
2. Underground mine
3. Mine ventilation
4. Mine environmental engineering
5. Mine ventilation practical
6. Mine environmental engineering practical
7. Mine Surveying-I
8. Surveying
9. Surveying practical
10. Coal Mine Methane Recovery and Utilization
11. Mine Automation and Data Analytics

Postgraduate

1. Ventilation and Environmental Engg. for Tunnels and Underground Space
2. Advanced Underground Mine Ventilation and Environmental Engineering
3. Elements of Mining Technology
4. Advanced Underground Mine Ventilation and Environmental Engineering Practical
5. Ventilation and Illumination Practical
6. Computational Subsurface Ventilation And Environment
7. Mine Simulation and Data Analytics
8. Computational Subsurface Ventilation And Environment Practical

XI. EXTRA RESPONSIBILITIES

- Co-Professor-In-Charge, Mine Ventilation Laboratory
- Convener, DUGC, Department of Mining Engineering w.e.f. 06-07-2026.
- Treasurer, PARAKRAM'-2025, IIT (ISM), Dhanbad (21.03.2025 to 23.03.2025)
- Student mentorship Program for B.Tech (Mining Engg) students
- Faculty Advisor, Kartavya, an NGO under the aegis of CSM, IIT(ISM) Dhanbad (24.05.2021)
- Secretary, DAC – August, 2023 to 03.07.2025
- Warden, Aquamarine Hostel – 29.06.2022 to 30.06.2024
- Faculty-in-charge – Vacation Training
- Faculty-in-charge – Radiation and Gas Testing Laboratory
- Faculty Advisor – III/IV Semester (B.Tech & Dual Degree) during 2018-2019
- Tabulator of Deptt. of Mining Engg. during 2015-2018
- Member in 38th, 39th and 40th Convocations of IIT(ISM) held on 18th & 19th June, 2018, 11th December, 2018 and 21 December, 2019.
- Joint treasurer in Srijan, III and Basanta-2020 at IIT(ISM).
- Nominated as the Reporting Centre (RC) officers for online verification of the documents of the candidates, who have been allocated seats at IIT(ISM) Dhanbad, via JoSAA-2020 during the period 17-20 October, 2020.
- Nominated as the member of Departmental Faculty Screening Committee (DFSC) of the Department of Mining Engineering for Assistant Professor Positions

XII. WORK EXPERIENCE

Position	Organization	Period
Associate professor Basic Pay: Rs. 152500/- (Level 13A2: Rs. 139600/- – Rs. 211300/-)	Indian Institute of Technology (ISM), Dhanbad	From 09/08/2023 to till now
Assistant professor	Indian Institute of Technology	From 23/07/2021 to

(Grade I) (Level 13A1: Rs. 131400/- – Rs. 204700/-)	(ISM), Dhanbad	08/08/2023
Assistant professor (Grade I) (Level 12: Rs. 101500/- – Rs. 167400/-)	Indian Institute of Technology (ISM), Dhanbad	From 23/07/2018 to 22.07.2021
Assistant professor (Grade II)	Indian Institute of Technology (ISM), Dhanbad	From 23/07/2015 to 22/07/2018
Post-Doctoral Fellow	Indian Institute of Technology (ISM), Dhanbad	From 20/04/2015 to 22/07/2015
GET (Mining Engg.)	UltraTech Cement, Aditya Birla, Chhatisgarh	From 01/07/2010 to 28/06/2011
Industrial training	Mahanadi Coal Field Limited, Basundhara, Odisha	From 16/05/2009 to 10/07/2009

XIII. SOFTWARE SKILLS

- MS office, R software, SPSS, Statistica, Origin, Ventsim.

XIV. AWARD/HONOUR/PRIZE/CERTIFICATE

- Nominated as External Member of the Board of Studies (BoS) of the Department of Mining Engineering, Faculty of Engineering & Technology, AKS University, Satna (M.P.), for a term of three years, effective from 23 June 2026.
- MGMI Award of Excellence for Non Coal Mining - for Outstanding Contribution in Non Coal Mining Industry for the year 2024-2025 conferred on 27.09.2025 (**Annexure-2**)
- Invited as an examiner for evaluation of M. Tech. (Research) thesis received from National Institute of Technology Karnataka, Surathkal, on 09.06.2025.
- Invited as an external examiner for conducting evaluation of major project of Final year B.Tech (Mining Engg.) Students at Government College of Engineering, Keonjhar, Odisha, BIT Sindri and KK College Of Engineering and Management, Dhanbad in the month of May, 2025.
- Invited as an external member for finalizing the Mission and Vision of Department of Mining Engineering, Government College of Engineering, Keonjhar, Odisha on 27.03.2025.
- Invited as an External Expert for Teachers Recruitment Board, Chennai, Tamil Nadu during 21st - 23rd March, 2025.
- Invited as an external expert for recruitment of Mine Officers for Indian Bureau of Mines in the month of August, 2024.
- Nominated as Executive Committee Member of Mining Engineers Association of India, Dhanbad Chapter w.e.f. 22.07.2024 for two years.
- Nominated as one of the members for Board of Studies (BoS), Biju Patnaik University of Technology (BPUT), Odisha, w.e.f. 24.06.2024 for two years.
- Received the certificate as Resource Person in the Skill Development Training Program on Assistant Mine Surveyor Course for “Enhancing the Employability of Youths” Under the Scheme of PMKVY 4.0 & NSDC (April, 2023 to July, 2023 and Nov, 2023 to May, 2024).
- Invited as an External Examiner for evaluation of the Ph.D. thesis received from

Kalinga Institute of Industrial Technology (KIIT) Bhubaneswar in the month of May, 2024.

- Invited as an external examiner for conducting evaluation of major project of Final year B.Tech (Mining Engg.) Students at Government College of Engineering, Keonjhar, Odisha on 03.05.2024.
- Invited as an external examiner for conducting viva-voce examination of B.Tech (Mining Engg.) Students at BIT Sindri on 15.03.2024.
- Invited as an external expert for recruitment of mine officers for the UP Public Service Commission on 24.01.2024.
- Invited for delivering a lecture on airborne respirable dust, its impact and control for mining engineers of Guali Iron Ore Mines, Odisha Mining Corporation Ltd., via video conferencing on 23.04.2023.
- Nominated as a member of selection committee for the recruitment of project assistant in CIMFR, Dhanbad on 30.06.2021.
- Nominated as a member of selection committee for the recruitment of project assistant in CIMFR, Dhanbad on 08.01.2020.
- Received Canara Bank Research Award – 2015 during celebration of 90th Foundation Day on 09.12.2015 in Indian School of Mines, Dhanbad.
- Invited as Guest Lecture in MINARE 2k15 organised during 13-15 March, 2015 in National Institute of Technology, Rourkela, Odisha.
- Received International Travel Support Scheme (ITS) from Science and Engineering Research Board (SERB), a statutory body under Department of Science & Technology, Government of India in July, 2014.
- Received Students' International Travel (SIT) Grant Scheme from ISMAA, Indian School of Mines, Dhanbad in June, 2014.
- Received course certificate for attending the 'Anglo Coal Explosion and Fire Awareness Seminar' at the Kloppersbos Test Facility, CSIR, South Africa, in August, 2014.
- Received course certificate for attending the Computational Fluid Dynamics (CFD) at INNOVENT Engineering Solutions Pvt. Ltd., Bangalore from May, 2013.
- Secured 66th rank in GATE-2011 in Mining Engineering.
- Secured 446th rank (state level) in AIEEE-2006
- Qualified in CBSE-PMT-2006
- Secured 250th rank in Orissa JEE – 2006.
- Secured 2nd position in essay competition during my plus two.
- Secured 3rd position in English Grammar competition during my schooling period.

XV. SEMINAR AND WORKSHOP ATTENDED

- International workshops on “Safety, health and ventilation cost benefit optimization with simulation and control” and “Mine refrigeration and cooling distribution”, August 2014, Sun City, South Africa.
- International workshop on “Challenges and Opportunities of Underground Coal Gasification in India (UCG-2017)”, February 12-13, 2017, Vigyan Bhawan, New Delhi, India.
- International conference on “NexGen Technologies for Mining & Fuel Industries (NxGnMiFu-2017)”, February 14-17, 2017 (6 days), Vigyan Bhawan, New Delhi, India.
- International Workshop on “Best Practices in Methane Drainage and Use in Coal

Mines”, March 09-10, 2017, Radisson Blu, Ranchi-834001 (JH) India.

- International Workshop on “Indian Mining Legislation”, 3rd November, 2017, Australian High Commission, New Delhi.
- National Seminar on “Safety, Security, Fire & Loss Prevention in a Digitised Business Environment”, November 22-24, 2017, Maneskhaw Centre, New Delhi.

XVI. FOREIGN VISIT

- Visited **South Africa** to attend the ‘10th International Mine Ventilation Congress (IMVC)’ during 2 – 8 August, 2014. I also visited Impala Platinum mine during this congress.
- Visited **China** to attend the ‘11th International Mine Ventilation Congress (IMVC)’ during 14 – 20 September, 2018.

XVII. SPONSORED RESEARCH PROJECTS

Sl. No.	Title of project	Amount (Rs in lakhs)	Funding Agency	Role	Status
1	Evaluation of effect of ventilation on radon dose received by the miners in underground uranium mines (Patitapaban Sahu/MRP-DDF/ME/TEQIP).	2.00	TEQIP (IIT-ISM)	PI	Completed
2	Prediction of ventilation requirement for optimization of radon concentration in low-grade underground uranium mines [Project No: FRS (93)/2015-2016/ME].	13.50	FRS (IIT-ISM)	PI	Completed
3	Radon exhalation and its control in Indian underground uranium mines [Project No: DST(SERB)/(153)/2016-2017/489/ME]	46.21	SERB	PI	Completed
4	Development of guideline for prevention & mitigation of explosion hazard by risk assessment and determination of explosibility of Indian coal incorporating risk based mine emergency	833.57	CIL	Member	Completed

	evacuation and re-entry protocol [Project No. : CIL (4)/2015-16/461/ Mining Engg.].				
5	Methane drainage prior to mining [DST-SERB/(190)/ 2018-2019/557/ME]	300.11	DST	Co-PI	Completed
6	Advanced AI-Driven Cyber-Physical Systems (CPS) for Sustainable Water Management and Treatment in Coalbed Methane Operations in India	Rs.98.87 Lakh (IIT (ISM) Dhanbad – ₹39.46 lakh + PMRC Private Limited – ₹59.41 lakh)	TEXMiN	PI	Ongoing

XVIII. LABORATORY DEVELOPMENT

- Established one **radiation measurement and control laboratory**

XIX. COURSE DEVELOPED

- Coal Mine Methane Recovery and Utilization (MNO304) – Open Elective for 6th Semester B.Tech students

XX. CONSULTANCY PROJECTS

- Involved with various consultancy projects as member in different uranium mines of UCIL, coal mines, zinc mines, etc. (***Details are provided in Annexure-1***)

XXI. PROFESSIONAL DEVELOPMENT PROGRAMME/OUTREACH PROGRAMME

- **Coordinator**, Training Programme on “Airborne Respirable Dust Monitoring” (Project No. EDP/7126/2023-2024) for the mine professionals of PBCMP, NTPC Ltd., Badkagaon, Hazaribagh (Amount: Rs. 3,00,000/- + Rs. 54,000/- (GST@18%) = Rs. 3,54,000/-).
- **Co-Coordinator**, Executive Development Programme on “Controlled Blasting Management for Road Construction in Himalayan Territory (Project No. EDP/7032/2022-2023)” for the executives of BRO (Border Roads Organisation) during September 12 – 24, 2022. (Amount: Rs. 19,71,020/- + Rs. 3,54,784/- (GST@18%) = Rs. 23,25,804/-).
- **Co-Coordinator**, Executive Development Programme on “Controlled Blasting Management and Safety for Road Construction for BRO Officers (Project No. EDP/7129/2023-2024)” for the executives of BRO (Border Roads Organisation) during January 08 – 20, 2024. (Amount: Rs. 10,83,368/- + Rs. 1,95,007/- (GST@18%) = Rs. 12,78,375/-).
- **Co-Convener**, International Conference on “Safe, Smart and Sustainable Mining (3SM)” [Project No.: IIT(ISM)(CONFERENCE)(3SM)/2023-2024/35/MNE] during 16-18 December 2023 at Hotel Fairfield by Marriott Goa Benaulim (Near Margao), Goa.
- **Co-Convener**, International Conference on “Mine Ventilation and Environment for Green Mining (MVEGM-2024)” [Project No.: IIT(ISM)(CONFERENCE)(3SM)/2024-

2025/64/MNE] held at Puri, Odisha, India during 20-22 December, 2024.

- Involved as faculty advisor of Kartavya for organizing the annual event “PRAKASH-2025”, An NGO under the aegis of CSM, IIT (ISM), Dhanbad, held in the Penman Auditorium on 19.01.2025.

XXII. RESEARCH GUIDANCE

• PhD student guidance

Sl.No.	Admission No	Name of students	Title of the project	Status
1	17DR000420	Mr Imran Athar Beg	Investigation on the effect of ventilation on radiation dose received by the miners in low ore grade underground uranium mines	Awarded (5.9.2022)
2	20DP0069	Mr Laxman Pal (Part-time)	A study of thermal properties of coal and coal measure rocks, and their correlation with simulated range of virgin rock temperatures for underground coal mines of Raniganj Coalfield	Ongoing
3	23DR0256	Mr Kunal Rungta (Full-time)	Modelling and Simulation of Airborne Particulate Matter Dispersion Emitted From Opencast Coal Mine	Ongoing
4	25DP0002	Mr Abinash Chiro Santosh Sahoo (Part-time)	Exact topic to be finalized after completion of his course works	Ongoing
5	25DP0033	Mr Prashant Kumar (Part-time)	Exact topic to be finalized after completion of his course works	Ongoing
6	25DP0054	Mr Rakesh Kumar Behera (Part-time)	Exact topic to be finalized after completion of his course works	Ongoing
7	25DP0129	Mr Sandeep Kumar Sahoo (Part-time)	Exact topic to be finalized after completion of his course works	Ongoing

9	25DR0157	Mr Mrinal Kumar (Project JRF registered for Full- time Ph.D.)	Advanced AI-Driven Cyber-Physical Systems (CPS) for Sustainable Water Management and Treatment in Coalbed Methane Operations in India	Ongoing
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• **M.Tech Student guidance**

Sl. No	Admission No	Name of students	Title of the project	Status
1	2013JE1031	Ayush	Assessment of the control measures against the development of coal dust explosions in underground coal mines	Completed (2018)
2	2013JE0691	Mr Mayuresh Soni	Mathematical modelling for prediction of ventilation requirement to dilute the different noxious gases present in underground mine atmosphere,	Completed (2018)
3	16MT001339	Mr Mohit Agrawal	Effect of ventilation on radiation exposure Of miner in underground mines.	Completed (2019)
4	17MT001555	Neha Verma	Investigation into the factors influencing the selection of main mechanical ventilator in tunnels	Completed (2019)
5	17MT001602	Sagar Gupta	Investigation on the various parameters considered for optimum size of the airway in an underground mine.	Completed (2019)
6	17MT002279	Shubham Ghosh	Investigation on the prevention and mitigation of coal dust explosion hazards in Indian underground Coal Mines	Completed (2019)

7	2013JE0767	Vimal Kumar	Study on the selection of the equipment to achieve the desired ore production in an opencast mine.	Completed (2019)
8	18MT0358	Biswanath Chatterjee	Evaluation of climatic condition inside underground environment	Completed (2020)
9	19MT0051	Ananjay Kumar Gond	Study on refrigeration cooling capacity requirement for providing the comfortable underground tunnel environment conditions	Completed (2021)
10	19MT0125	Deepak Kumar	Selection of suitable method for controlling the airborne respirable dust in tunnels	Completed (2021)
11	19MT0150	Haripada Kole	Control of heat flow in degree II gassy coal mines	Completed (2021)
12	20MT0016	Abinash Chirosantosh Sahoo	Assessment and characterisation of airborne respirable dust due to different mining activity in an opencast coal mine	Completed (2022)
14	23MT0355	Satwik Sengupta	Study On Dispersion of Respirable Particulate Matter & It's Control	Completed (2025)
15	24MT0259	Morajdhwaj	Evaluation and management of coalbed methane produced water for beneficial uses in Indian coalfields	Completed (2026)
16	24MT0466	Suraj Kumar	Underground mine ventilation optimization using Ventsim 3D modelling software	Completed (2026)
17	24MT0239	Md Sadab Alam	Optimization of ventilation system for heat and humidity in underground mines	Completed (2026)

18	24MT0253	Mohit Kumar Saw	Quantitative assessment of ventilation air methane (VAM) and its mitigation in underground coal mines	Completed (2026)
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- **B.Tech Students guidance:** More than 50.

XXIII. PUBLICATIONS

- **Book:** “Underground Metalliferous Mining”. *Authors:* Prof. S.C. Bhowmik, Prof. Patitapaban Sahu, & Prof. P.K. Behera, *Publisher:* Khwaab Publication, 15.05. 2025, ISBN NUMBER: ISBN-10-8197512426, ISBN-13-978-8197512421, 978-81-984960-6-5.
- **Book:** “Recent Advances in Mining”. *Editor-in-Chief:* Prof. Singam Jayanthu, *Editors:* Dr Patitapaban Sahu, Dr. B K Mishra, *Publisher:* IME Publications/The Indian Mining & Engineering Journal, ISBN: 978-81-977618-6-7

The research papers published are available in the following link:
[“https://scholar.google.co.in/citations?user=mqmT4rEAAAJ&hl=en”](https://scholar.google.co.in/citations?user=mqmT4rEAAAJ&hl=en)

➤ International refereed journals

1. **Sahu, P.,** Mishra, D.P., Panigrahi, D.C., Jha, V.N., Patnaik, R.L., 2013. Radon emanation from low-grade uranium ore. Journal of Environmental Radioactivity, Vol. 126, pp. 104 - 114. (*Elsevier, Thomson Reuter, I.F. 2.655, Q1*)
2. Mishra, D.P., **Sahu, P.,** Panigrahi, D.C., Jha, V.N., Patnaik, R.L., 2014. Assessment of ²²²Rn emanation from ore body and backfill tailings in low-grade underground uranium mine. Environmental Science and Pollution Research, Vol. 21(3), pp. 2305 – 2312. (*Springer, Thomson Reuter, I.F. 5.190, Q2*)
3. **Sahu, P.,** Mishra, D.P., Panigrahi, D.C., Jha, V.N., Patnaik, R.L., Sethy, N.K., 2014. Radon emanation from backfilled mill tailings in underground uranium mine. Journal of Environmental Radioactivity, Vol. 130, pp. 15 – 21. (*Elsevier, Thomson Reuter, I.F. 2.655, Q1*)
4. Panigrahi, D.C., **Sahu, P.,** Mishra, D.P., Jha, V.N., Patnaik, R.L., 2014. Assessment of inhalation exposure potential of broken uranium ore piles in low-grade uranium mine. Journal of Radioanalytical and Nuclear Chemistry, Vol. 302 (1), pp. 433 - 439. (*Springer, Thomson Reuter, I.F. 1.754, Q3*)

5. **Sahu, P.**, Panigrahi, D.C., Mishra, D.P., 2014. Sources of radon and its measurement techniques in underground uranium mines – an overview. *Journal of Sustainable Mining*, Vol. 13 (3), pp. 11- 18. (**Scopus**)
6. **Sahu, P.**, Panigrahi, D.C., Mishra, D.P., 2015. Evaluation of effect of ventilation on radon concentration and occupational exposure to radon daughters in low ore grade underground uranium mine. *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 303, pp. 1933-1941. (**Springer, Thomson Reuter, I.F. 1.754, Q3**)
7. Panigrahi, D.C., **Sahu, P.**, Mishra, D.P., 2015. An improved mathematical model for prediction of air quantity to minimize radiation levels in underground uranium mines. *Journal of Environmental Radioactivity*, Vol. 140, pp. 95 – 104. (**Elsevier, Thomson Reuter, I.F. 2.655, Q1**)
8. Panigrahi, D.C., Mishra, D.P., **Sahu, P.**, 2015. Evaluation of inhalation exposure contributed by backfill mill tailings in underground uranium mine. *Environmental Earth Sciences*, Vol. 74, pp. 4327-4334. (**Springer, Thomson Reuter, I.F. 3.119, Q1**)
9. Panigrahi, D.C., Mishra, D.P., **Sahu, P.**, Bhowmik, S.C., 2015. Assessment of radiological parameters and radiation dose received by the miners in Jaduguda uranium mine, India. *Annals of Nuclear Energy*, Vol. 78, pp. 33 – 39. (**Elsevier, Thomson Reuter, I.F. 1.312, Q1**)
10. **Sahu, P.**, Panigrahi, D.C., Mishra, D.P., 2016. A comprehensive review on sources of radon and factors affecting radon concentration in underground uranium mines. *Environmental Earth Sciences*, Vol. 75: 617, pp. 1-19. (**Springer, Thomson Reuter, I.F. 3.119, Q1**)
11. Panigrahi, D.C., **Sahu, P.**, Banerjee, M., 2018. Assessment to ^{222}Rn and gamma exposure of the miners in Narwaphar underground uranium mine, India. *Radiation Physics and Chemistry*, Vol. 151C, pp.225-231. (**Elsevier, SCI, I.F.2.776, Q1**)
12. Beg, I.A., **Sahu, P.**, Panigrahi, D.C., 2021. ^{222}Rn dose of mine water in different underground uranium mines. *Radiation Physics and Chemistry*, Vol. 184, pp. 109468 (1-6). (**Elsevier, SCI, I.F.2.776, Q1**)
13. Beg, I.A., **Sahu, P.**, Panigrahi, D.C., 2021. Multivariate regression analysis to assess the ^{222}Rn exhalation rates from uranium ores and their relative contributions to the ^{222}Rn concentration in the underground uranium mine atmosphere. *Radiation Physics and Chemistry*, Vol. 184, pp. 109484 (1-7). (**Elsevier, SCI, I.F.2.776, Q1**)

14. **Sahu, P.**, Beg, I.A., Panigrahi, D.C., 2023. An investigation of ^{222}Rn exhalation rates from backfill mill tailings influenced by the different parameters in underground uranium mines. *Radiation Physics and Chemistry*, Vol. 203, 110648 (1-11). (*Elsevier, SCI, I.F.2.776, Q1*)
15. **Sahu, P.**, Beg, I.A., Panigrahi, D.C., 2023. Comparative study of radon sources and associated health risk in four underground uranium mines. *Environmental Monitoring and Assessment*, Vol. 195, 400. (*Springer, Thomson Reuter, I.F. 3.307, Q3*)
16. Mishra, D.P., Verma, S.K., Bhattacharjee, R.M., Upadhyay, R., **Sahu, P.**, 2023. Geological and microstructural characterisation of coal seams for methane drainage from underground coal mines. *Bulletin of Engineering Geology and the Environment*, Vol. 82, 343. (*Springer, Thomson Reuter, I.F. 4.2, Q2*)
17. Beg, I.A., **Sahu, P.**, 2024. Contribution of mine water and uranium ore rocks to the ^{222}Rn -induced radiation dose received by the mine workers in a low-ore grade underground uranium mine, India. *Journal of Sustainable Mining*, Vol. 23, Issue 2, pp. 177-184. <https://doi.org/10.46873/2300-3960.1412>. (Journal Impact Factor – 1, Q4)
18. **Sahu, P.**, Beg, I.A., Bhowmik, S.C., Panigrahi, D.C., 2024. Evaluation of radiation dose associated with underground uranium mining activities in East Singhbhum, Jharkhand, India. *Radiation Physics and Chemistry*, Vol. 223, 111977 (1-7).
19. Pal, L., **Sahu, P.**, Paluri, P., Panigrahi, D.C., 2026. Influence of physical and chemical properties on the thermal behaviour of Coal: A comparative study and regression-based assessment of two Indian underground mines. *Fuel*, Vol. 416C, 138545. (*Elsevier, SCI, I.F.7.5, Q1*)

➤ **National refereed journal**

20. **Sahu, P.**, Mishra, D.P., Panigrahi, D.C., 2015. Emanation of radon in underground uranium mines - an overview. *Journal of Mines, Metals and fuels*, Vol. 63 (3), pp. 45 – 49. (*Scopus*)
21. Kumar, P., Mishra, D.P., Panigrahi, D.C., **Sahu, P.**, 2017. Numerical investigation of ventilation effect on methane layering behavior in underground coal mines. *Current Science*, Vol. 112, pp. 1873-1881. (*Scopus, I.F. 1*)

22. **Sahu, P.**, Beg, I.A., Panigrahi, D.C., 2020. Mathematical modelling of radon (^{222}Rn) exposure of underground mine workers: a comprehensive review. Journal of Mines, Metals and fuels, Vol. 68 (11&12), pp. 349 – 353, 371. (*Scopus*)

➤ **International conferences**

23. **Sahu, P.**, Mishra, D.P., Panigrahi, D.C., 2014. Studies on ^{222}Rn emanation from uranium ore and effect of ventilation on ^{222}Rn concentration in mine air. In: Glehn, F.v. & Biffi, M., Proceedings of 10th International Mine Ventilation Congress (IMVC), Published by the Mine Ventilation Society of South Africa, ISBN 978-0-620-61487-0, 2-8 August, pp. 625 – 632.
24. **Sahu, P.**, Mishra, D.P., Panigrahi, D.C., 2014. Monitoring of radon gas and its progeny in underground uranium mines. In: Jamal A., Kumar A., Sharma S.K., Singh R.P. & Karmakar N.C. (Eds.), Environmental Impact and Management in Mining & Mineral Based Industries, Proceedings of International Symposium on Environmental Management and Current Practices in Mining & Allied Industries (EMPM-2014), Organized by Department of Mining Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi, India, ISBN: 978-81-87760-20-7, 13-15 February, pp. 529 - 541.
25. Beg, I.A., **Sahu, P.**, Banerjee, M., Panigrahi, D.C., 2019. A review on ^{222}Rn exposure of the miners in underground mines. International Conference and Exhibition on Energy & Environment: Challenges & Opportunities (ENCO-2019), 20-22 February, pp. 272-278.
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27. **Sahu, P.**, Panigrahi, D.C., Kumar, A., 2024. Spontaneous combustion and mine fires in Indian coal mines – characterization, detection and control measures. In: Belle, B. & Si, G., Proceedings of 12th International Mine

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28. **Sahu, P.**, Sahoo, A., Rungta, Kunal, 2024. Monitoring and Measurement of Airborne Respirable Dust in Opencast Coal Mines: A Case study. In: Mishra, D.P., Sahu, P. & Behera, B.(Eds.), International Conference on “Mine Ventilation and Environment for Green Mining (MVEGM-2024)”, 20-22 December, Organized by Department of Mining Engineering, Indian Institute of Technology (ISM), Dhanbad, India.
29. Sahoo, A., Singh, A.K., **Sahu, P.**, Mishra, D., 2025. Problems of Dust Pollution in Opencast Coal Mines: Trends, Impact, and Current Mitigation Efforts - A Case Study. 11th Asian Mining Congress (11th AMC) to be held at the JW Marriott, Kolkata during October 30-31, 2025. (Accepted).
30. Pal, L., **Sahu, P.**, Panigrahi, D.C., 2025. Thermal Behavior of Coal from the Raniganj Coalfields and Its Implications for Deep-Mine Ventilation Systems. International Conference & Exhibition on Underground Mining Mechanisation Enhancement & Emerging Dynamics (UMMEED), organised by Eastern Coalfields Limited and IIT (ISM), Under the aegis of Directorate General of Mines Safety, 19-20 December, 2025.

➤ **National conferences**

31. **Sahu, P.**, Panigrahi, D.C., Mishra, D.P., 2013. Radiation hazards in underground uranium mining. In: Singh S.K., Bhattacharjee R.M., Sinha V.P., Mishra D.P. (Eds.), Proceedings of National Seminar on Mining Industry: Challenges & Opportunities (MICO’13), Organized by Indian Mines Managers’ Association (IMMA) and Indian School of Mines (ISM), Dhanbad – 826004, India, 28-29 September, pp. 51 - 58.
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XXIV. ACADEMIC RECOGNITION

- Editorial Board Member in the International Journal of Human Computer Interaction and Data Mining (<https://adrjournalshouse.com/index.php/Int-Journal-data-mining-computer/about/editorialTeam>)
- Editorial Board Member in the Journal Publication of International Research for Engineering & Management (JOIREM) (<https://joirem.com/editorial-team/>)
- Editorial Board Member in Journal of Mining Technologies and Mineralogy ([https://journalofmining.com/journal/editorial_board_member/Patitapaban-Sahu/Indian-Institute-of-Technology-\(Indian-School-of-Mines\)/515](https://journalofmining.com/journal/editorial_board_member/Patitapaban-Sahu/Indian-Institute-of-Technology-(Indian-School-of-Mines)/515))
- Reviewer, Department of Science & Technology (DST-SERB), Govt. of India
- Reviewer, Journal of Environmental Radioactivity, Elsevier
- Reviewer, Applied Radiation and Isotopes, Elsevier
- Reviewer, Annals of Nuclear Energy, Elsevier
- Reviewer, Environmental Technology & Innovation, Elsevier
- Reviewer, Journal of Engineering and Technological Sciences
- Reviewer, Environmental Earth Sciences, Springer
- Reviewer, International Journal of Oil, Gas and Coal Technology, Inderscience
- Reviewer, Nuclear Science and Techniques, Springer
- Reviewer, Journal of Radioanalytical and Nuclear Chemistry, Springer
- Reviewer, Safety Science, Elsevier
- Reviewer, Soil Dynamics and Earthquake Engineering
- Reviewer, PLOS ONE
- Reviewer, Environment Health

XXV. MEMBERSHIP OF PROFESSIONAL BODIES

- Life Membership of Mining, Geological and Metallurgical Institute (MGMI) (LM – 10905)
- Life member, Mining Engineers Association of India (LM. No. 5165/DHN)
- Society for Mining, Metallurgy & Exploration Inc.

Annexure – 1

As per records hosted on MIS

Sl. No.	Name of PI/Co-PI etc.	Sponsoring Authority	Topic/Field	Date of Sanction & Duration	Total Value (excluding taxes)	Amount Released	Completed/ Ongoing
1	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	Hindustan Zinc Ltd.	Field investigations, modelling and design on ventilation system of Sindesar Khurd Mine, Hindustan Zinc Ltd. (Phase IV - 4th year period)	From 01.05.18 to 21.10.18	Rs. 1872450/-	Rs. 1872450/-	Completed
2	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	SRB International Pvt. Ltd. Noida	A study of performance and behavior self contained Self Rescuers (SCSRs) by full bench tests as per IS 15803:2008 and adopted by DGMS for the samples manufactured by M/s Closed JSC OZONE GSPO, Russia and submitted by SRB	From 24.08.18 to 03.10.18	Rs. 155000/-	Rs. 155000/-	Completed

			International Pvt. Ltd., Noida.				
3	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	Swati Safesecure Equipments (P) Ltd.	A study of performance and Behavior Self Contained Self Rescuers (SCSRs) by full bench tests as per IS15803:2008 and adopted by DGMS for the Samples Manufactured by Roshimzashita Corporation Russia and Submitted by Swati Safesecure Equipments (P) Ltd. Mumbai.	From 24.08.18 to 28.9.18	Rs. 155000/-	Rs. 155000/-	Completed
4	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	Tata Steel Ltd.	Analysis and interpretation of mine air samples of Sijua Colliery, Tata Steel Limited for assessing the status with respect to spontaneous combustion /fire and explosibility	From 04.10.18 to 18.6.18	Rs. 472500/-	Rs. 472500/-	Completed

			y of atmosphere by using the ASSESS FIRE software developed at IIT (ISM) Dhanabd				
5	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	Indu SCCL CGME Consontium	Modelling of ventilation system for establishing connection with the new shaft for ventilation of XV/XVI Seam workings in Moonidih Colliery, BCCL being operated by INDU-SCL-CGME Consortium	From 28.03.18 to 28.05.18	Rs. 350000/-	Rs. 350000/-	Completed
6	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	ECL	A study into the performance and behavior of mine ventilation and safety instruments , and analysis and detailed interpretation of air samples of ECL mines	From 14.11.18 to 29.5.19	Rs. 112396/-	Rs. 112396/-	Completed

			(SSI Colliery, Khoodia Colliery, Sodepur(R) Colliery, Chinakuri Mine No. 1 and Kunustoria Colliery), Eastern Coalfields Ltd.				
7	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	Tata Steel Ltd.	A study of ventilation system of coal mines of Jharia Division for ascertaining the degree of gassiness of Digwadih and 6 & 7 Pits Collieries, Tata Steel Ltd.	From 2.8.18 to 30.9.19	Rs. 2300000/-	Rs. 2300000/-	Completed
8	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	BCCL	A study into the performance and behavior of mine ventilation and safety instruments including the functionality of self contained chemical self rescuers (SCSRs), and	From 24.11.18 to 18.1.19	Rs. 208977/-	Rs. 208977/-	Completed

			analysis and detailed interpretation of air samples of BCCL (PB Area, MRS-Dhansar, AKWM Colliery, Tetulmari Colliery and Bhowrah (North) Colliery and Eastern Jharia Area), Bharat Coking Coal Ltd.				
9	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Member)	Hindalco Industries Ltd., Raigarh	A study into the performance and behavior of mine ventilation and safety instruments , and analysis and detailed interpretation of air samples of Gare Palma IV/4 and IV/5 Mines of Hindalco Industries Limited, Raigarh.	From 18.12.18 to 13.4.19	Rs. 184200/-	Rs. 184200/-	Completed
10	Prof D.C.	BCCL	A study	From	Rs.	Rs.	Comple

	Panigrahi (CI) & Dr Patitapab an Sahu (Co-CI)		into the performanc e and behavior of mine ventilationa nd safety instruments including the functionabil ity of self contained chemical self rescuers (SCSRs), and analysis and interpretati on of fire area and general body air samples of BCCL mines (Bhagaband Colliery, Mines Rescue Station- Dhansar, Moonidih Colliery, AKWM Colliery, Phularitand Collieryt, 10/12 Pits K.B. Colliery, Gopalichuk Collieryt, Bera Colliery), Bharat Coking Coal Ltd.	27.5.19 to 30.8.19	614941/-	614941/-	ed
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11	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Co-CI)	Hindustan Copper Ltd.	Field investigations, modelling and simulation studies for reorganizing the ventilation system to improve the workplace environment for the workings of Khetri and Banwas North Block at Khetri Copper Mine of Hindustan Copper Ltd. Rajasthan.	From 24.7.19 to 25.11.19	Rs. 1199995 /-	Rs. 1199995 /-	Completed
12	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Co-CI)	SECL	A study into the performance and behavior of mine ventilation and safety instruments including the functionality of self contained chemical self rescuers (SCSRs) of SECL mines (Baherabadh Colliery, Bishrampur	From 20.8.19 to 13.12.19	Rs. 560969/-	Rs. 560969/-	Completed

			Area, Bhatgaon Area and Korba Area), South Eastern Coalfields Limited.				
13	Prof D.C. Panigrahi (CI) & Dr Patitapaban Sahu (Co-CI)	WCL, Nagpur	A study of performance and behavior Self Contained Self Rescuers (SCSRs) by full bench tests as per IS 15803:2008 and adopted by DGMS for the samples submitted by Western Coalfields Ltd., Nagpur.	From 4.1.20 to 14.2.20	Rs. 542500/-	Rs. 542500/-	Completed
14	Prof D.P. Mishra (CI) & Dr Patitapaban Sahu (Co-CI)	Kusunda colliery, BCCL	Scientific study to restrict and control the fire in subsidence and fire affected area in Basseriya 4 no. Basti near Durga Mandir at Basseriya Gondudih Khas Kusunda Colliery of Kusunda	30.08.24 (Duration: 4 months)	Rs. 15,00,000 /-		Completed

			area				
15	Dr Patitapaban Sahu (CI)	Bastacolla, BCCL	Proximate Analysis of Steam Fraction of Coal Seam II (BOT) of ROCP/SJ Colliery, Bastacolla Area	17.09.2024 (1 week)	Rs. 57,000/-	Rs. 57,000/-	Completed
16	Dr Patitapaban Sahu (Member)	BCCL	Scientific assessment of old and dangerous workings of	03.09.2024	Rs. 14750000/-	Rs. 14750000/-	Ongoing
17	Prof D.P. Mishra (CI), Dr Patitapaban Sahu (Co-CI) , Prof. Ankush Galav	BCCL (Consultancy No. CONS/7614 /2025-2026)	Gas Emission Study at Kenduadih, PB Area, BCCL		Rs. 25960000/-	Rs. 25960000/-	Ongoing

Annexure-2



MINING, GEOLOGICAL & METALLURGICAL INSTITUTE OF INDIA

Established 1906

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Ref: MGMI/136/

September 11, 2025

Dr. Patitapaban Sahu –LM - 10905

Associate Professor

Deptt. of Mining Engineering

Indian Institute of Technology (ISM)

Dhanbad – 826004, Jharkhand

(M) 8987419603

Email: patitapaban99@gmail.com

patitapaban@iitism.ac.in

Dear Sir,

Sub: MGMI Award for Non Coal Mining for the year 2024-25

Congratulations!

It is a pleasure to inform that the meeting of the Judging Committee held on 07th September 2025 recommended your name for the **MGMI Award for Non Coal Mining** for the year 2024-25 and the Award will be conferred upon you at the Institute's 119th Annual General Meeting to be held on Saturday, the 27th of September, 2025 at 11.30 a.m. at the Ballroom of **HYATT REGENCY KOLKATA, JA-1, Sector-3, Salt Lake City, Kolkata – 700098.**

You are requested to kindly make it convenient to attend the meeting physically or authorize someone to collect it on your behalf. A confirmation regarding your physical presence at the AGM will be highly appreciated.

PLEASE CONFIRM YOUR PRESENCE IN THE MEETING.

It is requested to share with us in mail, your name which is given in your bank to prepare the cheque with your name.

We solicit your kind cooperation in this regard.

Thanking you,

Yours faithfully,

Ranajit Talapatra

Honorary Secretary

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Hindi News

Jharkhand News

Dhanbad News

Dr Patitpov

आईआईटी धनबाद के प्रो.
पतितपावन साहू को एमजीएमआई
अवार्ड

धनबाद आईआईटी आईएसएम के एसोसिएट प्रोफेसर
डॉ पतितपावन साहू को एमजीएमआई अवार्ड (नन कोल
माइनिंग 2024-25) के लिए चुना गया है। यह पुरस्कार
खदान वेंटिलेशन, अग्नि सुरक्षा, कोलबेड मीथेन...

ऐप पर पढ़ें

Newsrap • हिन्दुस्तान, धनबाद

Sun, 14 Sep 2025 05:27 AM

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धनबाद आईआईटी आईएसएम धनबाद के माइनिंग इंजीनियरिंग
विभाग के एसोसिएट प्रोफेसर डॉ पतितपावन साहू को
एमजीएमआई अवार्ड (नन कोल माइनिंग 2024-25) के लिए चुना
गया है। यह प्रतिष्ठित सम्मान डॉ साहू के खदान वेंटिलेशन, खदान
अग्नि सुरक्षा, कोलबेड मीथेन अनुसंधान और खनन में पर्यावरण
इंजीनियरिंग के क्षेत्र में उत्कृष्ट योगदान के लिए देने की घोषणा की
गई है। भारतीय खनन भूवैज्ञानिक एवं धातुकर्म संस्थान
(एमजीएमआई) की ओर से कोलकाता में यह पुरस्कार दिया
जाएगा।

08:50 ✓

27 | Page

आईआईटी आईएसएम धनबाद के प्राध्यापक को मिला एमजीएमआई अवार्ड

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कोपलाचल लाइव न्यूज़, Koylachal Live News Team

Dhanbad : भारतीय प्रौद्योगिकी संस्थान (आईएसएम), धनबाद को यह घोषणा करते हुए खुशी हो रही है कि खनन इंजीनियरिंग विभाग के एसोसिएट प्रोफेसर डॉ. प्रतीताप बन साहू को वर्ष 2024-25 के लिए एमजीएमआई नॉन-कोल माइनिंग अवॉर्ड के लिए चुना गया है। यह निर्वाचन माइनिंग, जिपोलॉजिकल एंड मेटालर्जिकल इंस्टीट्यूट ऑफ इंडिया (एमजीएमआई) की जर्जिंग कमेटी की बैठक में 7 सितम्बर 2025 को लिया गया। यह पुरस्कार उन्हें 27 सितम्बर 2025, शनिवार को सुबह 11:30 बजे कोलकाता स्थित हयात रीजेंसी होटल में आयोजित एमजीएमआई की 119वीं वार्षिक आम बैठक के दौरान प्रदान किया जाएगा। डॉ. साहू ने 2010 में एनआईटी राउरकेला से बी टेक (खनन इंजीनियरिंग) किया और 2015 में आईआईटी (आईएसएम) धनबाद से पीएचडी की उपाधि प्राप्त की। उन्होंने अपने करियर की शुरुआत अल्ट्राटेक सीमेन्ट, आदित्य बिड़ला समूह में प्रेजुएंट इंजीनियरिंग ट्रेनी के रूप में की और इसके बाद शैक्षणिक क्षेत्र में योगदान देना शुरू किया। उनका शोध कार्य मुख्य रूप से माइन वैटिलेथन, माइन

http://koylachallive.com/news_detail.aspx?id=24779

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फायर, कोल बेड मीथेन, खानों में रेडिएशन मॉनिटरिंग और माइन एनवायरमेंटल इंजीनियरिंग से जुड़ा हुआ है। उन्होंने एक किताब और 31 शोध पत्र प्रकाशित किए हैं, जिनमें से 21 प्रतिष्ठित अंतरराष्ट्रीय और राष्ट्रीय जर्नलों में छपे हैं। उनके नेतृत्व में तीन सरकारी वित्तपोषित शोध परियोजनाएँ और 17 उद्योग-प्रायोजित परियोजनाएँ पूरी की गई हैं, जिनसे कोयला और धातु खदानों की वास्तविक समस्याओं का समाधान हुआ है। डॉ. साहू ने अब तक एक पीएचडी शोधार्थी, आठ स्नातकोत्तर विद्यार्थियों और कई स्नातक विद्यार्थियों का मार्गदर्शन किया है और वर्तमान में तीन पीएचडी विद्यार्थियों का निर्देशन कर रहे हैं। उनके योगदान को पहले भी कई पुरस्कारों से सम्मानित किया जा चुका है, जिनमें 2015 में आईआईटी (आईएसएम) धनबाद के 50वें स्थापना दिवस पर मिला कैमरा बैंक रिसर्च पब्लिकेशन अवॉर्ड, 2014 में विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार की इंटरनेशनल टैलेंट सपोर्ट स्कीम, और 2014 में आईएसएम एल्युमनाई एसोसिएशन का इंटरनेशनल टैलेंट प्रॉट शामिल है। संस्थान को डॉ. साहू की इस उपलब्धि पर गर्व है और उन्हें इस सम्मान के लिए हार्दिक बधाई देता है। यह उपलब्धि संस्थान की शैक्षणिक, शोध और उद्योग सहयोग की उत्कृष्ट परंपरा को और मजबूत करती है।

कोपलाचल लाइव न्यूज़