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## Curriculum Vitae

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- Name:** Dr. Manas Kumar Mallick
- Department:** Mining Engineering
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- Office Address:** Department of Mining Engineering  
BIT Sindri, PO: Sindri Institute, Dhanbad- 828123
- Educational Qualification:**



Sl. No.	Degree	Year of Passing	Specialisation	University/Institution	CGPA	Remarks
01	Ph. D	2022	Mining Engineering	Indian Institute of Technology (ISM), Dhanbad	--	Mine Planning
<b>Title of Thesis:</b> Long-Term Production Scheduling for Limestone Mine using Ore Clustering Technique and Decisive Site Algorithm						
02	M.Tech	2010	Mineral Engineering	Indian School of Mines, Dhanbad	8.83	First class, 1 <sup>st</sup> Rank
03	B.Tech	2007	Mining Engineering	Government College of Engineering, (formerly OSME) Keonjhar	7.99	First class, 2 <sup>nd</sup> Rank

### 7. Academic and Research Interest:

Computer Aided Mine Planning and Design, Rock Blast Design, Rock Excavation Engineering, Mining Machinery, Clean Coal and Mineral Processing Technology, Geomechanics and Strata Control, Mine waste and fly ash utilisation, Critical mineral recovery from coal residues, Tailings management and zero-waste mining, AI/ML and IoT application in mining

### 8. Academic Responsibilities:

**UG level courses taught:** Rock Excavation Engineering, Mining Machinery, Mine Development, Underground Metal Mining Methods, Advanced Underground Coal Mining Methods, Mineral Processing, Rock Mechanics and Ground Control, Mine Surveying, Drilling and Blasting, Surface Mining Technology, Mine Economics, Mine Ventilation, Mine Planning and Design, Mass Production Technology for Underground Coal

**UG level Laboratory:** Mine Machinery Lab, Computer aided Mine Planning and Design Lab, Mineral Processing Lab, Drilling and Blasting Lab

**PG level courses taught:** Environmental Impact Assessment, Solid Waste Pollution and Control, Land Degradation and Control, Global Environmental Issues

## 9. Professional Skills:

- Blast design for surface and underground mine to improve the fragmentation and yield.
- Use of blast design and analysis software such Fragalyst, Wipfrag, O-Pit Blast, Strayos AI etc.
- Proficient with SURPAC software for 3D geological modelling, mine design, and production planning.
- Proficient in MINEX software for geological modelling, coal resource estimation, mine planning, and production scheduling.
- Technical studies on utilization of mine waste and fly ash for eco-friendly mining and construction applications.
- Mine automation and digital mine concepts, including smart fleets, remote monitoring, and intelligent mine management systems.
- Engineering design and optimization of mineral processing plants, including selection of unit operations, equipment sizing, and process integration.
- Development of process flow sheets for beneficiation of ores, considering grade, recovery, throughput, and energy efficiency.

## 10. Professional Experience: More than 16 years in both academics and industries

### • Teaching Experience:

Sl. No.	Position Held	Name of Organisation	From	To
01	Assistant Professor (Academic Level 10 with rationalised pay of Rs 64900/-)	BIT, Sindri	January 2022	Continuing
02	Assistant Professor (TEQIP-III Project under NPIU) (Rs 70,000/- consolidated with 3 % annual increment)	BIT, Sindri	January 2018	January 2022
03	Assistant Professor (Academic Grade Pay of Rs 6000/- in pay band Rs 15,600 - 39,100/-)	MRCET, Secunderabad	May 2015	January 2018

## 11. Research Experience:

Sl. No.	Position Held	Name of Organisation	From	To
01	Research Scholar	IIT (ISM), Dhanabd	February 2016	January 2022

### • Industrial Experience:

Sl. No.	Position Held	Name of Organisation	From	To
01	Manager	Dhara Manganese and Ferro Alloy Pte Ltd, Ivory Coast	December 2014	May 2015
02	Manager	Shri Bajrang Power and Ispat Ltd, Raipur	February 2014	December 2014

03	Associate Manager	McNally Engineering Ltd, Kolkata	Bharat Company	July 2010	February 2014
04	Assistant Manager	Adhunik Steel Ltd		May 2007	May 2008

**12. Research Publications:** Details are given in Annexure I

Publications in International and National Journals	10
Publications in International and National proceedings of seminars /conferences/symposia/workshop	10

**13. Book Authored:**

Sl. No.	Author/Co-authors	Year of Publication	Title of Book(s)/ Book Chapters	Details of Publisher
01	Author	2025	Principles of Mining Machinery and Systems	Khwaab Publication, Jamshedpur, India
02	Author	2025	Foundations of Mining Engineering	Khwaab Publication, Jamshedpur, India
03	Author	2025	Fundamentals of Drilling and Blasting	Khwaab Publication, Jamshedpur, India

**14. Research Supervision:** Please refer to Annexure I for details

	Ongoing	Completed
Guidance at doctoral level	01	--
Guidance at postgraduate level	03	--
Guidance at undergraduate level	12	50

**15. Industrial Consultancy Projects:** Please refer to Annexure I for details

Designing of controlled blasting parameters for deep hole blasting, Establishing the design parameters for ultimate pit slope and dump slope, Haul Road design, Roof support design to control the strata in underground colliery, Establishing the design parameters for operating the highwall mining, Determination of physico-mechanical properties of rocks, Utilisation of fly ash	
Completed	24
Ongoing	11

**16. Conference/Workshop/Seminar Organised:**

Sl. No.	Title of the Conference/ Seminar/ Workshop	Funding Agency	Year	No. of Participants	Role
01	International Conference on Emerging Technologies in Mechanical Science (ICETMS)	CMR Educational Society	2013	200	Co-ordinator

**17. Symposium/ Workshop/ Seminar/ FDP Attended:**

Sl. No.	Title of Symposium/ Workshop/Seminar/ FDP/Short-term Courses	Date	Organising Institute
01	Twelve weeks FDP on Surface Mining Technology	November 2025	NPTEL-AICTE
02	NEP 2020 Orientation and Sensitization Programme under Malviya Mission Teacher Training Programme (MM-TTP) of University Grant Commission organized by	April 2025	IIT (ISM) Dhanbad
03	Twelve weeks FDP on Drilling and Blasting Technology	January 2025	NPTEL-AICTE
04	Twelve weeks FDP on Mine Automation and Data Analytics	January 2025	NPTEL-AICTE
05	One-week national workshop on Ventilation for Underground Mines: Concepts and Applications	January 2024	NIT Rourkela
06	Workshop on Promotion of Research and Development in the field of Science & Technology among Higher Education Institutions in Jharkhand organised by DHTE, Government of Jharkhand	February 2024	DHTE, Ranchi
07	National Institute of Teacher's Training and Research (NITTR)	August 2023	NITTR
08	One week workshop on Research Methodology and Research Paper Writing (RMRPW 2023)	January 2023	BIT Sindri
09	Two weeks FDP on Data Science and AI for Non-Programmers using Momentum	March 2023	BIT Sindri
10	One week workshop training program on Uses of Advanced Instruments and Numerical tools for Mining Engineering Applications	September 2023	IIT (ISM) Dhanbad
11	Two weeks FDP on Entrepreneurship organised by Innovation and Incubation Center, BIT Sindri	November 2023	BIT Sindri
12	Faculty induction program on Service Regulations for Employees	February 2022	BIT Sindri
13	Global Steel Industry Sustainability (GSIS)	2 <sup>nd</sup> August 2020	NIT Durgapur
14	Developing an e-Content	18-19 June 2020	VEC, JNTUH
15	Research and Practices in Civil Engineering	03-07 August 2020	IGIT, Saranga
16	Recent Advances in Civil Engineering	02-07 June 2020	ECA, Rajasthan
17	An impact of document Image Processing in decade research	26 June 2020	VEC, JNTUH
18	Role of AI in future Microgrid Control	17-20 June 2020	SIT, Sambalpur
19	Intellectual Property Rights	02 July 2020	Ujjain Engg. College, Ujjain

20	Engineering Colleges on Virtual Labs	29 June 2020	BIT, Sindri, NITK
21	Free Open-Source Tools for Education and Research	07 July 2020	BIT, Sindri, FOSSEE IITB
22	Recent Advances in Process Metallurgy	13-17 July 2020	OP Jindal University
23	Transforming Pedagogy in India	01-03 August 2020	NIT Jamshedpur
24	Advances in Mining 2020 (AIM 2020)	January 2020	CSIR-CIMFR, Dhanabd
25	Recent Practices and Advancement in Mineral Industry (RPAMI-2020)	February 2020	VNIT, Nagpur
26	Workshop on Multiphysics Simulation for Teaching and Research	November 2019	BIT Sindri
27	Faculty Development Programme on AI and Machine Learning	December 2019	E & ICT Academy IIT Roorkee
28	Faculty Development Programme on Python Programming with Industry Perspective	December 2019	E & ICT Academy IIT Roorkee
29	Faculty Development Programme on Advanced Pedagogy & Digital Tool	June 2019	IIT Kharagpur
30	Workshop on Outcome Based Education and Accreditation	March 2018	BIT Sindri
31	Role of Chemical Engineer in environment protection	October 2018	BIT Sindri
32	Workshop on Recent Advances in Mining Technology- Opportunities and Challenges	December 2018	BIT Sindri
33	Faculty Development Programme on Teaching Learning Process	January/February 2018	BIT Sindri

#### 18. Administrative Position Held:

Sl. No.	Position Held	From (Date/Month/Year)
01	Associate Manager (Engineering and Design)	July 2010 to February 2014
02	Manager (Operation)	February 2014 to December 2014
03	Manager (Operation)	December 2014 to May 2015
04	Mentor/ Counsellor for Mining Engineering Students	10 <sup>th</sup> September 2018
05	TEQIP MIS Coordinator	14 <sup>th</sup> July 2018
06	Departmental Purchase Committee Member	20 <sup>th</sup> July 2018
07	Assistant Hostel Superintendent	16 <sup>th</sup> February 2022
08	Departmental IQAC Co-ordinator	7 <sup>th</sup> March 2022
09	Departmental PG coordinator for the programme M. Tech (Environmental Engineering)	10 <sup>th</sup> September 2024
10	Departmental coordinator for Ph. D programme.	10 <sup>th</sup> September 2024
11	Departmental Co-ordinator for different Audit course (Mastering Personal Finance, Regional Language)	12 <sup>th</sup> August 2025

12	Departmental NBA Co-ordinator and preparation of SAR for accreditation of Department of Mining Engineering	06 <sup>th</sup> December 2025
13	Laboratory in charge of Mining Machinery Lab	16 <sup>th</sup> February 2019
14	Laboratory in charge of Computer Application of Mine Planning and Design Lab	12 <sup>th</sup> April 2020

### 19. Awards/ Achievements/Recognitions:

- Nominated as a member of the BOS for framing the syllabus of B. Tech (Mining Engineering) for Jharkhand University of Technology (JUT), Ranchi
- Gold Medalist in M. Tech for securing 1<sup>st</sup> position among the Branch at IIT (ISM), Dhanbad
- Secured 2<sup>nd</sup> Position in B. Tech among the Mining Branch at GCE, Keonjhar
- Secured 52<sup>th</sup> rank in GATE Mining Engineering.
- Executed a MoU with Strayos AI for collaboration in AI-driven mining analytics and digital mine planning
- Awarded the certification from NPTEL-SWAYAM as a topper in the subject of Drilling and Blasting Technology.
- Awarded the certification from NPTEL-SWAYAM as a topper in the subject of Underground Mining of Metalliferous Deposits.
- Awarded the certification from NPTEL-SWAYAM as an elite member in the subject of Surface Mining Technology.
- Awarded the certification from NPTEL-SWAYAM as an elite member in the subject of Mine Automation and Data Analytics.
- Awarded NPTEL domain certification in Sustainable Surface Mining Engineering as NPTEL Domain Star.

### 20. International Exposure:

- Actively contributed to the commissioning and operational stabilization of a copper beneficiation plant at Konkola Copper Mines, Zambia.
- International exposure in Ivory Coast with responsibilities including production planning for a manganese quarry and techno-economic assessment of ore upgrading and value addition.

### 21. Membership of Professional Societies:

- Member of Indian Institute of Mineral Engineers (IIME)
- Life Member of Indian Society for Technical Education (ISTE)
- Life Member of Mining Engineering Association of India (MEAI)
- Life Member of Mining Geological and Metallurgical Institute of India (MGMI)
- Member of Institution of Engineers India (IEI)

Dr. M. K. Mallick

**Thesis (PhD. Degrees) Supervision**

- **Ongoing**

Sl.No.	Name of the Scholar	Title of Research	Role	Date of joining
01	Qamar Fahim	Parametric study of web pillar and entry stability in Highwall Mining using numerical methods	Guide	2024

**Thesis (M.Tech. Degrees) Supervision**

- **Ongoing**

Sl.No.	Name of the Student	Year	Title of Thesis
01	Aarti Kumari	2024	Performance analysis of machine learning models for air pollution prediction
02	Ashutosh Kumar	2024	Impact assessment of industrial effluent discharge on surface water quality parameters
03	Vishal Kumar	2024	Performance evaluation of dust suppression systems in open-cast coal mines

**Research Publications:**

- **International and National Journals**

Sl. No.	Title of the Paper	Name of the Journal	Volume/No	Year of Publication	Pages
01	Preliminary Studies on Teeter bed Separator for Separation of Manganese Fines	Powder Technology	239, ISSN: 0032-5910	2013	284-289
02	Comparative Analysis of Ore Reserve Estimation Techniques: IDW versus ISDW-A Case Study of the Kiriburu Iron Ore Deposit, India	The Indian Mining & Engineering Journal	Volume 64: No.02, ISSN 0019-5944	2025	05-11
03	Application of IoT to Predict Blast Induced Ground Vibration for the Enhancement of Safety during Blasting	The Indian Mining & Engineering Journal	Volume 63: No.10-11, ISSN 0019-5944	2024	13-19
04	An Approach to uplift the Blasting Performance through the integration of	The Indian Mining & Engineering Journal	Volume 63: No.09, ISSN 0019-5944	2024	04-10

	Drone Surveying and Real-Time Measurement				
05	Geological Reserve Estimation of Limestone Deposit: A Comparative Study Between ISDW and OK	Modelling, Measurement and Control C (MMC_C)	Vol 81 (1-4)	2020	72-77
06	Long term Open Pit Mine Production Scheduling with variable Cut-off grade for Cost Optimization	Journal of Mines, Metals and Fuels (JMMF)	Vol 69 (2) ISSN:0022-2755	2020	58-64
07	Geological Resource Modeling and Mine Planning of a Surface Limestone Deposit	Journal of Mines, Metals and Fuels (JMMF)	Vol 68 (2) ISSN:0022-2755	2020	64-67
08	Inverse Square Distance Weighting vis a vis Ordinary Kriging Technique in Resource Estimation	Journal of Mines, Metals and Fuels (JMMF)	Vol 67 (11) ISSN:0022-2755	2019	501-506

- **International and National Symposia/Seminars/Conferences**

Sl. No.	Title of the Paper	Name of the Journal	ISBN No.	Year	Pages
01	Mine Planning and Design: A step wise approach to build better strategy for Mining Project	Recent Practices and Advancement in Mineral Industry (RPAMI-2020)	Proceedings	2020	201-206
02	Use of different Optimisation techniques in Mine Planning for better utilisation of Resources	National Conference on Advances in Mining (AIM-2020)	Proceedings	2020	145-156
03	A comparative study of chemical polymers to reduce dust on haul road in open cast mine	National Conference on Recent Challenges in Mining Industries	Proceedings	2018	319-326
04	A case study of Open cast Iron Ore Mine modelling and its Pit Optimisation	National Conference on Innovative trend in Mining Engineering	ISBN: 9789383038510	2017	235-239
05	A Study to reduce dust on Haul roads in Open Cast Coal Mines by using Chemical Suppressants	International Conference on Emerging Technologies in Mechanical Science (ICETMS)	ISBN: 9789383038466	2016	247-251

06	Application of Floatex Density Separator for treating Siliceous Manganese Ore Fines	Geominetech Symposium (ENTMS 2010), The Indian Mining Industry Journal	Proceedings	2010	109-114
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#### Industry sponsored consultancy projects

Sl. No.	Period	Organisation	Title of the project	Remarks
01	2023	Bansdeopur Colliery, M/s BCCL	Scientific study to find maximum charge per delay per round of blast for Bansdeopur Colliery, Sijua area, BCCL as per reg: 196(3), CMR – 2017.	PI
02	2023	Urma Paharitola Coal Block, M/s Aurobindo Reality and Infrastructure Private Ltd	Study and testing of core samples and submitting physico – mechanical properties (PMP) of the core samples for Borehole No. ARUP-05 of Urma Paharitola Coal Block at Dumka-Pakur, Jharkhand of Aurobindo Reality and Infrastructure Private Ltd.	PI
03	2023	AKWM Colliery, M/s BCCL	Scientific study to find maximum charge per delay per round of blast for departmental patch and Tetulmari patch, AKWMC (Amalgamated Keshalpur West Mudidih).	PI
04	2023	Nimcha Colliery, M/s ECL	Scientific study for preparation and formulation of Strata Control and Monitoring Plan of depillaring with stowing in district 33 EL Panel No 34 in Naga Seam (R VIII) at No 8 Pit, Nimcha Colliery	PI
05	2023	ABOCP Mine, Block-II Area, M/s BCCL	Determination of Density/Specific Gravity of New Benedih Patch and New Nudkhurkee Patch of ABOCP Mine, Block-II Area, BCCL.	PI
06	2023	Bhanora Opencast Project (Charanpur), M/s ECL	Scientific Study for maximum charge per delay and per round to be used in blasting to control blast induced ground vibration for safety of the permanent buildings or structures of permanent nature situated within danger zone i.e. within 500 m from place of blasting under Reg. 196(3) of CMR -2017 at Bhanora Opencast Project (Charanpur), ECL.	PI
07	2024	Tetulmari Colliery, M/s BCCL	Scientific study regarding deep hole trial-controlled blasting at Tetulmari Colliery, Sijua Area, BCCL as per regulation 196 (3) of CMR 2017	PI
08	2024	M/s Bharat Coking Coal Limited	Study of workings of existing Haul Roads of every patch of all Areas of BCCL, its	PI

			life and suggest measures to ensure better and efficient plying vehicles for Coal and OB transportation	
09	2024	NTST JG Colliery, Lodna Area, M/s BCCL	Slope Stability of one Ultimate Pit Slope and one External OB Dump of Amalgamated NT ST JG Colliery, Lodna Area, BCCL as per regulation 106 (2) of CMR – 2017	PI
10	2024	Chinmoy Mondal, Sand Mine, Stone Mine Owner & Developer	Scientific study regarding deep hole trial-controlled blasting at Baguli Stone Mines, Jamuria, Asansol as per regulation 196 (3) of CMR 2017	PI
11	2024	Bhowra (S) Colliery, M/s BCCL	Scientific Study in designing deep hole drilling and blasting system at 4A Patch specially in relation to the residential buildings in 12 No. Basti at Bhowra (S) Colliery, East Jharia Area, BCCL under Reg. 196(3) of CMR -2017.	PI
12	2024	Gopinathpur coal mine, M/s Gopinathpur Coalfield Pvt. Ltd	Scientific study as per regulation no. 106(2) of CMR 2017, for determination of method of working, ultimate pit slope, dump slope and monitoring of slope of Gopinathpur Colliery, GCPL.	PI
13	2024	Gopinathpur coal mine, M/s Gopinathpur Coalfield Pvt. Ltd	Scientific study as per regulation no. 106(2) of CMR 2017, for determination of method of working, ultimate pit slope, dump slope and monitoring of slope of Shampur 'A' Colliery, GCPL.	PI
14	2024	Gopinathpur coal mine, M/s Gopinathpur Coalfield Pvt. Ltd	Testing of core samples and submitting physico -mechanical properties (PMP) of the core samples of Gopinathpur coal mine.	PI
15	2024	M/s MECON Limited	Scientific study as per regulation No. 106(2) of CMR 2017, for determination of method of working, ultimate pit slope, dump slope and monitoring of slope stability North Dhadu (Eastern Part) Coal block located in Latehar distt. Jharkhand.	PI
16	2024	Office of the Principal Account General (Audit) Jharkhand, Ranchi	Scientific study to provide technical consultation for calculation of volume of 12 different stone leases situated in Jharkhand.	PI
17	2023	New Kenda OCP, Kenda Area, M/s ECL	Scientific study as per regulation No. 106(2) of CMR 2017, for determination of method of working, ultimate pit slope, dump slope and monitoring of slope stability of R-V, R-VI, R-VII seam of Quarry No. 02 of New Kenda OCP, Kenda Area, ECL.	PI

18	2023	Nirsha OC mine, M/s OCP	Scientific study for reviewing the present blasting practice in Nirsha OC mine and to recommend the aggregate maximum charge per delay and per round	PI
19	2024	ABOCP Mine, Block II Area, M/s BCCL	Scientific study of ultimate pit slope, dump slope, and monitoring of slope stability and designing deep hole drilling and blasting system taken into consideration of all mining parameters compliance to Regulation 106(2) and 196(3) of CMR 2017 of New Nudkherke Patch at ABOCP Mine, Block II area	PI
20	2024	Gopinathpur coal mine, M/s Gopinathpur Coalfield Pvt. Ltd	RMR Study RMR study for four (4) different seams/ boreholes core for roof strata at Gopinathpur coal mine, Mugma Area, ECL	PI
21	2024	Pakri Barwadih Coal Mining Project, M/s Triveni Sainik Pvt Ltd., NTPC	Scientific Study on Pit and Dump Slope Stability of Northwest Block of Pakri Barwadih Coal Mining Project (PBCMP), NTPC Mining Ltd. as per regulation 106 (2) of CMR – 2017	PI
22	2024	Jambad UG Colliery, M/s ECL	Scientific Study for depillaring with stowing at Kenda (R VI) seam in panel 21 below water logged quarry (depth of cover 160.87 m) at Jambad UG Colliery of Kajora Area.	PI
23	2024	Parascole East Colliery, M/s ECL	Scientific Study for depillaring with stowing at Jambad (R VIII Top) top seam in panel JT 21 below water logged quarry (depth of cover 100.51 m) at Parascole East Colliery of Kajora Area.	PI
24	2025	M/s MECON Limited	Geo-technical study for Baitarni (West) Coal Mining Project of M/s GMDC located in Talcher Coalfields in Odisha	PI
25	2025	Salanpur UG Colliery, M/s R K Coal Mines	Scientific Study of Blast-Induced Ground Vibration at II Seam, Underground Section of Salanpur Colliery	PI
26	2025	Pachwara South OCP, M/s Neyveli Uttar Pradesh Power Limited.	Scientific Study as per Regulation 106(2) of CMR 2017 and DGMS (Tech.) Circular No. 3 of 2020 for Slope Stability and Method of Working at Pachwara South OCP, M/s Neyveli Uttar Pradesh Power Limited.	PI
27	2025	Pachwara South OCP, M/s Neyveli Uttar Pradesh Power Limited.	Scientific Study in designing deep hole drilling and blasting system at Pachwara South OCP, M/s. Neyveyli Uttar Pradesh Power Limited under Reg. 196(2b), 196(2c) & 196(3) of CMR-2017.	PI

28	2025	PB project colliery, M/s Eagle Infra India Limited	Design the support system and manner of extraction using Continuous Miner and other allied machineries in 17 bottom seam of Bhagabandh unit of PB project colliery.	PI
29	2025	PB project complex, M/s Eagle Infra India Limited	Design of incline mouth/ portal of A and B inclines at PB project complex	PI
30	2025	Jambad OCP, M/s ECL	Scientific Study of controlled blasting and ground vibration study at Jambad more of Jambad OCP, along with its impact on panel no. 22 (R-VI seam) of Jambad UG Colliery	PI
31	2025	M/s JPW Infratech Private Limited	Scientific study of deep hole blasting and ground vibrations monitoring Raghunathpur thermal power station Phase - II (2 x 660 MW)	PI
32	2025	ABG Colliery, M/s BCCL	Scientific Study on Controlled Blasting for Patch-C, ABG Colliery as per Regulation 196(3) of CMR 2017"	PI
33	2025	AKWM Colliery, M/s BCCL	Scientific study as per regulation No. 106(2) of CMR 2017 and as per the Guidelines mentioned in DGMS (Tech.) Circular No. 3 of 2020 for determination of method of working, ultimate pit slope, dump slope and monitoring of slope stability at AKWM Colliery, Katras Area, BCCL	PI
34	2025	Chatti Bariatu Coal Mines, M/s Rithwik Projects Pvt. Ltd.	Study report for Determination of Bulk Density and Specific Gravity of Coal Seam of Chatti Bariatu Coal Mines, Hazaribagh, Rithwik Projects Pvt. Ltd.	PI
35	2025	Barsingsar project, M/s Neyveli Lignite Corporation	Scientific study for Opencast BLM to determine ultimate pit, bench and dump slope and monitoring of slope stability etc. as per DGMS (tech.) circular guidelines.	PI

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