


CURRICULUM VITAE

1.	Name	:	Mr. Arka Jyoti Das	
2.	Date of Birth	:	October 16, 1989	
3.	Current Position and Address	:	Scientist Mine Design & Simulation Section Mining Methods & Design Simulation Res. Group CSIR-Central Institute of Mining & Fuel Research Barwa Road, Dhanbad-826 015 Jharkhand, INDIA	
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
1.	M.Tech. (Mining)	2014	AcSIR, CSIR-Central Institute of Mining and Fuel Research, Dhanbad	Mine Safety Engineering
2.	B.E. (Mining)	2011	Bengal Engineering and Science University, Shibpur (Presently IEST, Shibpur)	Mining

5. Work Experience:

Sl. No.	Designation	Institution/company	From	To	Nature of work
1.	Scientist	CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India	11-04-2016	Continuing	R&D
2.	Trainee Scientist	CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India	05-09-2012	04-05-2014	M.Tech. Course work and R&D
3.	Management Trainee (Mining)	Coal India Limited	03-08-2011	06-07-2012	Production in Continuous Miner Section, Jhanjra Area, ECL

5. Area of specialization

- Rock mechanics and ground control
- Underground mining methods for contiguous, thick and difficult coal seams including development of new mining technologies and innovative techniques

- Design and application of mechanised mining methods, assessing suitability and modification of existing mining methods
- Numerical simulation of different underground mining structures
- Field Instrumentation and Monitoring

7. Honors/Awards received:

Sl. No.	Title of the Award	Year	Remarks
I.	The MGMI Shiv Lal Medal	2011-12	This award was given by Mining, Geological and Metallurgical Institute of India for the excellent performance in B.E.

8. Fellowships/Scholarships:

Graduate Aptitude Test of Engineering (GATE) Scholarship Award for securing AIR 1.

9. No. of Research Publications:

Papers in journals: 4

In conference proceedings: 7

List of publications:

Journals

1. Das A. J., Mandal P. K. and Sinha A. (2014): "Extraction of Locked-Up Coal by Strengthening of Rib Pillars with FRP - A Comparative Study through Numerical Modelling" accepted to *International Journal of Mining Science and Technology*, China, 18p.
2. Das A. J., Mandal P. K., Kumbhakar D. and Mishra P. K. (2014): "Effects of rib pillars at higher depth of working: A numerical modelling based study", *Mining Engineers Journal*, Vol. 16, No. 02, pp. 23-30.
3. Das A. J. (2013): "Determination of status of opencast mines in Kenda area, ECL- whether these are abandoned or disused, A case study", *Mining Engineers Journal*, Vol. 15, No. 3, pp. 20-27.
4. Das A. J., Mandal P. K., Ghosh C. N. and Sinha A., (2014): "An attempt to develop a technology for extraction of locked-up coal from underground mines using artificial pillars", *The Indian Mining and Engineering Journal*, Vol. 53, No. 05, pp. 18-25.

Seminar/Symposia

5. Mandal P. K., Das A. J. (2016): "Optimal Extraction of Coal From Developed Pillars Locked-Up under Different Surface/Sub-surface Structures", In: proc. 35th International Conference on Ground Control in Mining, 26-28 July, Morgantown WV, 8p.
6. Mandal P. K., Das A. J., Misra P. K. and Roy L. B. (2016): "Design of extraction methodology for semi-mechanised depillaring of an inclined coal seam", In: proc. 6th *Asian Mining Congress*, 23-27 Feb., Kolkata, India,.
7. Das A. J. and Mandal P. K. (2016): "Improvement of recovery percentage of locked-up coal by strengthening the rib pillars", In: proc. 6th *Asian Mining Congress*, 23-27 Feb., Kolkata, India,.
8. Das A. Mandal P. K., Das A. J., Ghosh C. N. and Sinha A., (2014): "Extraction of locked-up coal by artificial pillars - An attempt for development of a technology", In: proc. 5th *Asian Mining Congress*, 13-15 Feb., Kolkata, India, . 9p.
9. Mandal P. K., Das A. J., Kumbhakar D. and Mishra P. K. (2013): "Extraction of coal pillars at higher depth- A numerical modelling based study", In: proc. International Conference on Coal

and Energy- Technological Advances and Future Challenges, 15-17 Dec., Kolkata, India, pp. 83-96.

10. Das A. J., Paul P. K. and Mandal P. K. (2013): "Study of feasibility of reopening of abandoned opencast mines", In: proc. 25th *National Convention of Mining Engineers & National Seminar on Policies, Statutes, and Legislation*, 30th Nov.-1st Dec., Dhanbad, pp. 90-98.
11. Mandal P. K. and Das A. J. (2016): "Optimal Extraction of Coal From Developed Pillars Locked-Up under Different Surface/Sub-surface Structures", In: proc. 35th International Conference on Ground Control in Mining, 26 -28 July, Morgantown, USA, pp. 132-139.

10. Number of Books authored/edited: 01

11. a) No. of Patents granted/applied for: National: Nil
- b) Technologies developed, Licensed and/or commercialized: Nil

12. Foreign visits:

Nil

13. Details of Professional memberships:

Sl. No.	Name of the Body/Institution	Type of membership
1.	Mining, Geological & Metallurgical Institute of India	Life Member

14. Major contributions: (Max. 150 words)

Design of extraction methodology of locked-up coal in CSIR 12th FYP Network project
"Development of a Technology for Optimal Extraction of Locked-up Coal from Underground Mines Using Artificial Pillars (DeCoalArt).

15. Technologies and Products/Services

Nil

16. Designs and Prototype Developed:

Nil

17. Honours and awards won for technological contributions or sociological impact of R&D: Nil