

### Brief Bio-data

1. Name : **Aditya Kumar**
2. Date of Birth : 13/06/1993
3. Current Position and Address (Include Email ID and Contact Number): Technical Assistant Gr. III(1).CSIR-CIMFR, Barwa Road Dhanbad.  
Email id – Aditya@cimfr.nic.in,  
Contact No.-6201851007
4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	Diploma	2016	S.B.T.E Jharkhand ; Government Polytechnic College, Bhaga, Dhanbad	Mining Engg.
2	B. Tech.	Pursuing	Institution of Engineers, India	Mining Engg.

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Technical Assistant Gr. III(1)	CSIR-Central Institute of Mining and Fuel Research	01/08/2019	Still Working	Assisting in R & D

6. Work Area(s)/ Specialization: Ventilation Survey, Dust Survey, Diesel Particulate Matter (DPM) Survey, Gas sample analysis, Critical oxidation Temperature Setup, Determination of Crossing point and Ignition Point Temperature, Thermo Gravimetric Analyser, Ventsim modelling, Control of mine fire, CFD modelling, underground mine safety.

7. Major contributions: (Max. 100 words):

- Field visit and Diesel particulate matter survey, mine gases analysis survey in u/g zinc mines. Dust survey, laboratory analysis of dust and free silica determination, data compilation for report preparation for Rampura Agucha Mine, HZL.
- Laboratory analysis of Critical oxidation Temperature Setup, crossing point and Ignition Point Temperature, basic knowledge gain on Thermo Gravimetric Analyzer for the GAP project "Development of guideline for prevention & mitigation of explosion hazard by risk assessment and determination of explosibility of Indian coal incorporating risk based mine emergency evacuation and re-entry protocol"
- Filed visit and Ventilation survey work of 10 pits Digwadih Colliery of M/s Tata Steel Ltd for improvement in workplace.
- Field visit, analysis of sealed off air samples, pressure behavior study in stoppings on heating and CO problem SARPI unit of shyamsundarpur colliery Bankola Area ECL.
- Dust and noise survey, Analysis of mine air samples in laboratory, laboratory analysis of dust and free silica calculation, data compilation for report preparation of Jitpur colliery, SAIL.
- Field visit and ventilation survey, data generation, data compilation at Churcha mines (RO) of Baikunthpur Area, SECL.

8. No. of Research Publications:

- Papers in Journals: One paper communicated to journal
- In conference proceedings: Nil
- Invited lectures delivered: Nil
- List of best 05 publications: Nil
- Books/Chapters authored/edited: Nil

9. List of 5 Major Contract R&D Projects:

- Scientific Study for providing healthier workplace environment in mine including statutory compliance at Rampura Agucha Mine, HZL.
- Development of guideline for prevention & mitigation of explosion hazard by risk assessment and determination of explosibility of Indian coal incorporating risk based mine emergency evacuation and re-entry protocol.
- Scientific study for improvement in Ventilation system of 10 pits Digwadih Colliery of M/s Tata Steel Ltd for improvement in workplace environment.
- Sampling and analysis of air borne respiratory dust and noise of Jitpur colliery, SAIL.
- Advice for suitable ventilation design for improvement of ventilation design at Churcha mines (RO) of Baikunthpur Area.

10. (a) Name of Patents/Copyrights applied /granted/commercialized: Nil

(b) Technologies/Products /knowhow/Services developed: Nil

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received: Student member of Institution of Engineers, India

12. Societal Contributions: Completed Vidhan Sabha Election 2019 duty at Nirsa Election Consitutancy.