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1. **Name:** Dr. Anjaneer Kumar

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2. **Date of Birth:** 01-01-1961

3. **Current Position and Address:** Principal Scientist, CSIR-Central Institute of Mining and Fuel Research, Dhanbad

4. **Educational qualifications: (Graduation and above)**

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
I	Intermediate	1978	Ranchi University	Chemistry, Physics, Mathematics, English, Hindi
II	B.Sc. (Hons)	1981	Ranchi University	Chemistry (Hons), Physics & Mathematics in Pass Course
III	M.Sc.	1985	Ranchi University	Organic Chemistry
IV	Ph.D.	1989	Ranchi University	Organic Chemistry

5. **Work experience**

Designation	Institution/company	From	To	Nature of work
I. Principal Scientist	CIMFR	2011	Contd.	R & D
II. Senior Scientist-	-do	2006	2011	-do-
III. Scientist -C	-do	2000	2006	-do-
IV. Scientist- B	-do	1995	2000	-do-
IV. Research Scholar	-do	1992	1995	-do-
V. Temp. Lecturer	R.S. More College, Dhanbad,	1985	1992	Teaching

6. **Area of specialization:**

- \* Ambient air quality monitoring of coal bearing and non coal bearing areas, quality control of dust suppressant chemical for unpaved haul road of open cast mines.
- \* Assessment and monitoring of water qualities of mining and non mining areas.
- \* Quality control of life saving chemical of soda line.

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- \* Assessment and monitoring of residential sewage for installation of sewage treatment plant.
- \* Carrying capacity based developmental planning of the industrial (iron & coal) region.

#### 7. Honors/Awards received:

- \* Appreciation letter has received from M/s Newmac Industries, Ahmedabad for significant contribution of development of Soda lime at their Plant, copy enclosed as annexure.
- \* Satisfaction letter has received from Surat Lignite Power Plant of GIPCL, Gujarat to control the unpaved haul road dust of their open cast mines, copy enclosed as annexure.
- \* Prize has received for writing a paper in Hindi for a seminar held at CIMFR, Dhanbad.

#### 8. Fellowships/Scholarships:

#### 9. No. of Research Publications:

- \* **Kumar, et al.** “A Simplified Approach for Removal of Suspended Coal Fines from Black Discharge of Mining and its Allied Industries.” Journal of Mines, Metals & Fuels, Kolkata, November-December 2010.
- \* **Kumar, et al.** “An Effective Approach to Control the Fugitive Haul Road Dust of Lignite Open Cast Mines - By Chemical Treatment”. In Journal of Mines, Metals and Fuels, Kolkata, May-2008.
- \* **Kumar, et al.** “An Effective Approach for Evaluation of Physico- Chemical Properties of Dust- Suppressant Chemicals and their Application on Unpaved Haul Road of Opencast Mines”. TERI Information Digest on Energy and Environment, vol.10, No.1, March 2011.
- \* **Kumar, et al.** “Studies of Significant Properties of Filter Type Self Rescuer for its Use in Under Ground Coal Mine in CO Exposure”. In Journal of Mines, Metals and Fuels, Kolkata, October-2007.
- \* **Kumar, et al.** “An Effective Approach to Improve the Duration of Soda Lime for Use in Self Contained Close Circuit Breathing Apparatus”. The Indian Mining & Engineering Journal, October- 2007. (National Seminar on Mining Technology-Present and Future 21-22 September 2007, Bhubaneswar, Orissa).
- \* **Kumar, et al.** “Characterization of Physico-Chemical Properties of Soda Lime for Breathing Comfort.” proc. National Seminar on Mine Ventilation, Safety and Environment (VSE-2001). 29-30 Nov’2001, C.I.M.F.R., Dhanbad.
- \* **Kumar, et al.** “Estimation of Different Fractions of Respirable Particulate Matter in Coal Mining Areas”, Executive Training Program on Mine Environment, Safety and Health” organized By Human resource Development Program, CIMFR, Dhanbad, Jharkhand, 24-28<sup>th</sup> July.2000.
- \* **Kumar, et al.** Basic Studies Initiated on Improvement of Coal Quality through Beneficiation for Cleaner Use of

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Thermal Coal. Proceeding of the International Symposium on Clean Coal Initiatives. 22-24 January, New Delhi.

\* **Kumar**, et al. “A Comparative Laboratory Studies of Chemical Type Self Rescuer (SCSR) and Filter Type Self Rescuer (FSR) for its Use in Under Ground Mine Fire during Emergency”. In Journal of Mines, Metals and Fuels, Kolkata, November-2011.

\* **Kumar**, et al. “An Effective approach for the improvement in the efficacy of life saving filter typed safety breathing apparatus.” Journal of the Indian Chemical Society, Volume 91, No.1, January -2014.

\* **एस.के.घोष,**  
**जे.एम.बोस, अं. कुमार, बी.बी.दर,** “पयावरण के प्रात जागरूकता-दामोदर घाटा छत्र का जल प्रदूषण एवं अनराकरण”, *हन्दा गाष्ठा*, 15-16 अप्रैल, 1994 (*हन्दा शोध पत्र* ).

#### 10. **Number of Books authored/edited:**

\* M.L.Gupta, J.K.Pandey, **A. Kumar.**; **Co-convener** in the Seminar for **खान वायुसंचार, सुरक्षा एवं पयावरण** Mine Ventilation, Safety and **Environment** (VSE-2001). 29<sup>th</sup> -30<sup>th</sup> November 2001, CSIR-Central Institute of Mining and Fuel Research, Dhanbad.

11. An improved process for getting deoxygenated air Patent No. 2387/DEL/1998 granted on 13.08.98.

#### 12. **Foreign visits:**

#### 13. **Details of Professional memberships:**

#### 14. **Major contributions:** ( Max. 150 words)

\* In the present scenario of water crisis in the society, the reuse of mine / domestic polluted water may have significant value to fulfill our requirement. A laboratories experiment was conducted in the coal dust mixed water. The polluted black water is treated with minimum amount of chemicals, which are accepted in our daily life. Then polluted water is passing through mechanical agitator and settling ponds. The work is published in the *Journal of Mines Metals and Fuels, Kolkata*. “The title of the research paper is *A Simplified Approach for removal of Suspended coal Fines from black water discharge of mining and its allied industries*”.

\* Before application of any chemical to environment its physical as well as chemical properties should be evaluated. The performance evaluation of dust suppression chemicals includes the studies of physico-chemical properties (such as its effects on human life, plants, aquatic life etc..) are necessary to evaluated. Research article in these subject is published in, *TERI, Information Digest on Energy and Environment, New Delhi* and *Journal of Mines, Metals and Fuels, Kolkata*

#### 15. **Technologies and Products/ Services**

#### 16. **Designs and Prototype Developed:**

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Signature