

Format for Bio- Data



1. **Name** : Dr. RAJANI KANT TIWARY

2. **Date of Birth** : 16th July 1960

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

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

SL.No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
I.	Ph.D.	1991	Institute of Technology, BHU, Varanasi	Environmental Science
II.	M.Sc.	1983	Science Faculty, BHU, Varanasi	Chemistry (specialization Organic Chemistry)
III.	B.Sc.	1981	Science Faculty, BHU, Varanasi	Phy, Chem, Maths, Eng.

5. **Work experience**

Designation	Institution/company	From	To	Nature of work
I. Junior Research Fellow	CIMFR	1983	1985	R & D
II. Senior Research Fellow	-do-	1985	1989	-do-
III. Scientist B	-do-	1989	1994	-do-
IV. Scientist C	-do-	1994	1999	-do-
V. Scientist EI	-do-	1999	till date	-do-

6. **Area of specialization:**

- * Water quality assessment, pollution abatement and water quality modeling.
- * Preparation of Environmental impact assessment and Environment Management plan of coal and non coal mining projects.

- * Regional water balance studies, acid mine drainage and its management.
- * Optimization of non-monsoon flow of river to assimilate the pollution load and development of comprehensive technology for water pollution control.
- * Carrying capacity based developmental planning of the industrial region
- * Development of chemical and microbiological technique to remove Hexavalent chromium from Chromites waste dump and mine waste water.

7. Honors/Awards received:

- * Recognized as a Government Analyst by MOEF, Govt. of India under EP Act 1986.
- * Guided two Ph.D Students of Vinoba Bhave University, Hazaribagh.
- * Presently guiding three Ph.D students registered in NIITE, Mumbai; ISM, Dhanbad and Vinoba Bhave University, Hazaribagh.
- * NABET accredited FAE in the area of WP &RH.

8. Fellowships/Scholarships:

- * Received AOTS Scholarship from Government of Japan

9. No. of Research Publications:

- A. Papers in journals :
- (i) International Journals : 15
 - (ii) National Journals : 12
- B. In conference proceedings:
- (i) International Conferences : 16
 - (ii) National Seminar/ Symposium : 34
- C. Invited/key-note addresses : 5
- D. List of best 5 publications :

- I. **R. K. Tiwary**, R. Dhakate, V. Ananda Rao, V. S. Singh (2005), “**Assessment and prediction of contaminant migration in ground water from Chromite waste dump**”, Int. J of Geosciences, Env. Geology Volume 48. August Number 4-5.
- II. **R.K.Tiwary** (2001). “**Environmental Impact of coal mining on water regime and its management**”. Water, Air and Soil Pollution, 132, pp. 185-199,

- III. **R.K.Tiwary & B.B.Dhar (1994). "Environmental Pollution from Coal Mining Activities in Damodar River Basin, India".** Mine Water and Environment, Wollongong, NSW 2500, Australia Vol. 13, June-December issue, pp.1-10.
- IV. **R.K.Tiwary & B.B.Dhar (1994). "Effect of Coal Mining and Coal Based Industrial Activities on Water Quality of the River Damodar with Special Reference to Heavy Metals".** Int. J. of Surface Mining, Reclamation and Environment, 8 pp111- 115.
- V. **R.K.Tiwary, S.K.Ghosh & D.C.Rupainwar (1993). "Managing Aqueous Solutions Rich in Mn (II): An Inexpensive Technique."** Colloids and Surface: A Physico-Chemical Engineering Aspects, 70 pp131 - 137 (USA).

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

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

12. **Foreign visits:**

- * Visited **POLAND** Under CSIR-PAS Bilateral Exchange Programme on Fly ash Disposal and Management in the Year 1999.
- * Visited **JAPAN**, under AOTS Scholarship for Training on Solid Waste Management & its Treatment, in the year 2000.

13. **Details of Professional memberships:**

- Member of Indian Association of Environmental Management (IAEM), Nagpur.
- International Mine Water Association (IMWA).
- Member of Association of Overseas Training (AOTS), JAPAN.

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

- Development of revival mechanism of Damodar River water quality by continuous water quality monitoring, suggesting water pollution control strategy and optimization of environmental flow of the river to assimilate the pollution load.
- Assessment and prediction of ground water contamination in and around Chromite mining area with reference to hexavalent Chromium pollution and also developing a comprehensive technology for the prevention of ground water pollution in Sukinda Chromite mining area of Orissa state.

- Ground water modeling for Uranium mining area of Jaduguda & Turamdih, Jamshedpur of Jharkhand state.
- Applying best mining practices in lime stone mining area of Sirmour (H.P) for the restoration of Himalayan Ecology (Conducted Demonstration Project.
- Carrying Capacity based Planning of Industrial area like Damodar River Basin and Saranda Forest Region.

15. **Technologies and Products/ Services**

- (i) Developed:
- (ii) Licensed:
- (iii) Commercialized:

16. Designs and Prototype Developed:

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

Signature