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<b>Qualification:</b>	B.Sc.(Hons) Chemistry , M.Sc., Ph.D Indian School of Mines, Dhanbad
<b>Specialization / Research Interest</b>	<b>Water &amp; Air Pollution; Environmental Aspects of Solid Waste Disposal/Utilization; EIA ; Environmental Auditing.</b>
<b>Research Publication:</b>	<ul style="list-style-type: none"> <li>◆ Research Publications : 131</li> <li>◆ Books Resulted/ Edited : 09</li> <li>◆ MINENVIS Publications Edited : 31 Newsletters( ISSN-0972-4648 MINENVIS Newsletter &amp; 12 Monographs (ISSN-0972-4656 MINENVIS Monograph )</li> </ul>
<b>Experience</b>	
<ul style="list-style-type: none"> <li>◆ About 22 years of Teaching/ Research/ HRD/ Consultancy, over 12 years as <b>Professor</b> (since August 1993).</li> <li>◆ Academic Administration of about 20 years, About 6years as <b>Head</b>, CME/ ISM, Dhanbad.</li> </ul>	
<b>Achievement:</b>	
<b>Awards Professional Recognition/Distinction</b>	
<ul style="list-style-type: none"> <li>• Council Member of the Mining Engineers Association of India (2005-07).</li> <li>• Leader of the 40 Member Delegation deputed by MoEF/Govt. of India for International Training Program/Study Tour EMCBTAP: Mining Sub-component, UNSW, Sydney, June 14-25, 2004.</li> <li>• Leader of the Five (05) Member Delagation deputed by MoEF, Govt. of India on Expert Study Tour to the USA and Canada on Best Management Practices in Mining, EMCBTAP: Mining Sub-component, July 12-29, 2002.</li> <li>• Subarna and Sashibhusan Memorial Award 2002-2003.</li> <li>• National Mineral Award, 2001.</li> <li>• Bala Tandan Award of the Mining, Geological &amp; Metallurgical Institute of India, 2000.</li> <li>• J.N.Panda Memorial Award of the Institution of Engineer(s) (1995).</li> <li>• Visiting Professor at Southern Illinois University at Carbondale, USA (July 1994 – December 1995).</li> <li>• UGC Research Fellowship (1980 - 1983).</li> </ul>	
<b>Institution Building/Strengthening</b>	
<ul style="list-style-type: none"> <li>• Set up the Centre of Excellence in Mining Environment as State-of-art-facility under the Scheme of Centres of Excellence of Ministry of Environment &amp; Forests</li> </ul>	

Govt. of India.

- Set up the Environmental Information Centre (ENVIS) on Mining Environment at ISM with a distinctive website and providing information to a large number of USERS/Stakeholders.
- Environmental Management Capacity Building (EMCB) of Coal India Ltd. with the development of Training Modules & Training Manuals on the basis of TNS with the training of over 350 executives from Junior-Middle-Senior levels followed with enhancement of Environmental Management Capacity with the development of eight Manuals and Training of 110 executives.
- Strengthening of Nineteen (19) institutions (MoEF & CPCB, SPCBs, IBM, CMRI, CMPDI, MBM Engg. College, CME/ISM) under World Bank aided Project of Ministry of Environment & Forests, GOI. Environmental Management Capacity Building Technical Assistance (EMCBTA Project: Mining Sub-component).

**Member, Editorial Advisory Boards** of following Journals:

- Pollution Research
- Ecology, Environment & Conservation
- Industrial Pollution Control
- Environment and Ecoplanning

**Academic interactions with outside agencies**

CPCB, SPCBs, MoEF, CMRI, CFRI, CMPDI, DGMS, IIT Bombay, IIT Kharagpur, BIT Mesra, IBM, BCCL, ECL, CCL, MCL, SECL, SCCL, TISCO, NMDC

**Types of projects (Research/Consultancy) handled**

**Research Projects**

- Environmental Assessment of Coal Combustion Residues from Thermal Power Stations
- Investigation into the Air Quality Status and its Impacts on Social Spectrum of some coal mining areas of Korba Industrial Belt of Chattisgarh.  
(Jointly with Dr. A.K. Pal)
- Environmental Research in identified priority areas of Mining Environment (Task 4, Activity IIA EMCBTA Project : Mining Sub-component)
- Environmental Information System (ENVIS) on Mining Environment (continuing since 1993)

**Consultancy Projects**

- Successfully completed three mega projects for building Environmental Management Capacity of Coal as well as Non-coal Sectors under World Bank aided projects of Coal India Ltd. and Ministry of Environment and Forests, Govt. of India, respectively.
- Preparation of Environmental Management Plans of Kurasia OC&NCPH U/G projects of SECL.
- Investigation and Identification of SECL opencast Mines and Mine voids for Ash Filling

**Research Guidance**

- ◆ **Guided in Ph.D** - 15
- ◆ **M Tech (By Research)** - Two
- ◆ **M Tech dissertation** - 38
- ◆ **M.Phil dissertations** - 2