

## Curriculum Viate

**Name** Dr. Vikas Mahto  
**Fathers Name** Shri Dinbandhu Mahto  
**Mailing Address** Department of Petroleum Engineering  
Indian School of Mines, Dhanbad-826004 (Jharkhand)

### Personal Details

**Date of Birth** July 7, 1971  
**Nationality** Indian  
**Designation** Lecturer

### Academic Qualifications

Degree	Institute/University	Year of Passing	Division
B.Tech (Chemical Tech)	H.B.T.I. Kanpur, U.P.	1996	First
M.Tech (Chemical Engg)	R.E.C. Warangal, A.P.	1999	First
Ph.D. (Petroleum Engg)	I.S.M. Dhanbad, Jharkhand	2004	----

### Work Experience

Sl. No.	Organisation	Designation	Period
1	G.O.M. Industries Ltd, Indore	Junior Chemist	01.06.1996 to 22.09.1996
2	I.S.M. Dhanbad	Senior Research Fellow	21.06.2000 to 30.04.2003
3	B.I.T. Sindri	Part Time Lecturer	24.06.2003 to 30.06.2004
4	B.I.T. Sindri	Lecturer (on contract basis)	01.07.2004 to 31.09.2004
5	I.S.M. Dhanbad	Lecturer (on contract basis)	11.10.2004 to till date

**Area of Specialization:** Computer aided process and equipment design, Chemical process modeling and simulation, petroleum drilling and production operations, Petroleum refining and petrochemicals

**Research Interest:** Development of environmentally safe oil well drilling fluids, Petroleum production equipments design and Petroleum engineering operational design.

### Courses Taught (B.Tech & M.Tech Degree)

1. Chemical Engineering Thermodynamics
2. Chemical Engineering Drawing
3. Material of Construction and Metallurgy
4. Mathematical Methods and Computer Applications

5. Process Equipment Design (Chemical Engg.)
6. Petroleum Production Equipment Design
7. Petroleum Engineering Operational Design
8. Artificial Lift Techniques
9. Petroleum Refining and Petrochemicals

### **Honours and Awards**

Recipient of **Institute Academic Merit Scholarship** at H.B.T.I. Kanpur for consecutive two years (1993-95)

Awarded “**KARMASHEEL**” for excellent organizational capability in the year 1995 by National Service Scheme H.B.T.I. Kanpur

Achieved Certificate from Government of Andhra Pradesh for active participation in **JHANMABHOOMI PROGRAMME** of Government of Andhra Pradesh.

### **List of Publications**

1. Khan, A.R., Mahto Vikas, Fazal, S.A. & Laik, S. “Prediction of wax deposition onset and factors affecting it” (Communicated)
2. Mahto, Vikas & Singh, S.P. “Solid waste management in Petroleum Refining Industries” Proceedings of Waste management in chemical and allied industries: A vision 2020(WMCI-2005) held at N.I.T. Rourkela on 1-2 Oct. 2005, pp- 138-142
3. Mahto, Vikas & Laik, S. “Environmental aspects of coal bed methane production technology” Proceedings of First Indian Mineral Congress held at I.S.M. Dhanbad on February 28-March1, 2005, pp. 106-111
4. Laik, S. & Mahto, Vikas “Emerging developments on Coal bed methane production technology: An overview” Proceedings of First Indian Mineral Congress held at I.S.M. Dhanbad on February 28-March1, 2005, pp. 106-111
- \*5. Mahto, Vikas & Sharma V.P. “ Tragacanth Gum: An effective oil well drilling fluid” Energy Sources Vol 27, No. 3, 2005, pp 299-308
6. Sharma, V.P., Mahto, Vikas & Nath, J.D. “An overview of the recent technological development for removal of hydrocarbons from oil contaminated soils and ground water” Proceedings of the conference on Environment Management & Emerging Trends in Petroleum Sector held at Goa on February 25-27, 2004

7. Sharma, V.P. & Mahto, Vikas, "Environmental Management of Petroleum hydrocarbon contaminated soil and ground water" Proceedings of 4<sup>th</sup> International symposium on Fuels and Lubricants (ISFL-2004) , October 27-29, 2004, New Delhi
  
- \*\*8. Mahto, Vikas & Sharma V.P. " Rheological study of a water based oil well drilling fluid" Journal of Petroleum science and engineering, 45 (2004) 123-128
  
8. Singh, S.P. & Mahto, Vikas " Direct prediction of expanded bed height as a function of reduced Reynolds number in a Gas solid Fluidization, Proceedings of Ist National conference of research scholars and young scientists in chemical engineering held at I.I.T. Kharagpur on September 25-27, 2004
  
- \*10. Sharma V.P. & Mahto Vikas " An overview of the recent developments on safety issues & environmental consideration in deep water drilling fluid technology, May-September 2003, Oil Asia Journal, International Edition, pp. 19, 51-52
  
11. Kumar, A. Senthil, Mahto, Vikas & Sharma, V.P. " Behaviour of organic polymers on the rheological properties of Indian bentonite water based drilling fluid system and its effect on formation damage, Indian Journal of Chemical Technology, Vol.10, sept. 2003, pp 525-530
  
12. Sharma V.P. & Mahto Vikas " An overview of the recent developments on safety issues & environmental consideration in deep water drilling fluid technology, Proceedings of PETROTECH-2003 held at New Delhi on January 9-12, 2003

**\* Publication in International Journal**

**\*\* Among Top 25 Hottest Research Articles on Science Direct within the Journal of Petroleum Science and Engineering**