

APPENDIX I

PROFILE OF

ENVIROTECH CONSULTANTS PVT. LTD.

ENVIROTECH CONSULTANTS PVT. LTD.

C-33/1, Govindpuri, Kalkaji, New Delhi - 110019

Tel: (011) 26295422 Fax: 26295422, 26223865

E-mail: ecpldelhi@rediffmail.com

COMPANY PROFILE

1. COMPANY BRIEF

Envirotech Consultants Pvt. Ltd. was established in 1986 as an expert consultancy organization working in the areas of Environmental Impact Assessment and Management, Design and Turnkey Installation of Industrial Waste Water and Air Pollution Control Systems, Monitoring of Source Emissions and Ambient Air Quality, Environmental and Process Audits, Industrial Hygiene and Safety Studies.

Through its Monitoring Assignments, EIA Studies and Environmental Audits, Envirotech Consultants has collected a valuable data bank on air, water and soil characteristics and pollution abatement and control technologies. Through the Safety Studies, data bank on hazardous characteristics and safety systems and practices is also available. Installation of Waste Water Treatment and Air Pollution Control Systems also provided valuable information on performance characteristics of these systems. In view of the unique expertise and high professional competence, the World Bank and Central Pollution Control Board have also entrusted some assignments to Envirotech Consultants.

2. MAIN AREAS OF CURRENT ACTIVITY

- § Environmental Impact Assessment
- § Risk Assessment and Emergency Planning
- § Comprehensive Environmental Audit and Management
- § Ambient Air and Source Emission Monitoring
- § Consultancy for Pollution Control Systems
- § Environmental Site Assessment (Due Diligence)

3. MAJOR ASSIGNMENT HANDLED

3.1 ENVIRONMENTAL CONSULTANCY FOR WORLD BANK

1. Sector profile for Sugar and Distilleries Industries in Gujarat, Maharashtra, Tamil Naidu and Uttar Pradesh

3.2 ENVIRONMENTAL CONSULTANCY FOR CENTRAL POLLUTION CONTROL BOARD

1. River Basin Reports for Krishna, Sabarmati and Brahmani-Baitarani Basins

3.3 EIA/EMP STUDIES FOR INDUSTRIES

Agro-Chemicals

1. India Glycols Ltd., Kashipur, Uttar Pradesh

Alcohol

1. Rajasthan Breweries Ltd., Shahjahanpur, Rajasthan

Bulk Drugs

1. Lupin Laboratories Ltd., Mandideep, Madhya Pradesh (1990 and also for 1993, 1996, 1999 and 2001 Expansions)
2. Ranbaxy Laboratories Ltd., Mohali, Punjab
3. Ranbaxy Laboratories Ltd., Toansa, Punjab
4. Vitalife Laboratories, Pathreri, Haryana
5. Panacea Biotec Ltd., Lalru, Punjab
6. Ranbaxy Laboratories Ltd., Paonta Sahib, Himachal Pradesh (Fermentation Plant Expansion).
7. Ranbaxy Laboratories Ltd., Toansa, Punjab (Proposed Diversification)
8. * Ranbaxy Laboratories Ltd., Mohali, Punjab (Proposed New Plant)
9. Ranbaxy Laboratories Ltd., Paonta Sahib, Himachal Pradesh (New Formulation Plant)
10. Ranbaxy Laboratories Ltd., Lalru, Punjab (New Bulk Drugs Plant)
11. Ranbaxy Laboratories Ltd., Paonta Sahib, Himachal Pradesh (Fermentation Plant Expansion)

Cement

1. Zuari Agro-Chemicals Ltd., Mandalgarh, Rajasthan
2. Udaipur Cement Works, Udaipur, Rajasthan
3. Raymond Cement Works, Bilaspur, Madhya Pradesh
4. Associated Cement Co. Ltd., Lakheri, Rajasthan
5. J.K. Cement Works, Nimbahera, Rajasthan
6. Diamond Cement Works, Damoh, Madhya Pradesh
7. Cement Corporation of India, Bokajan, Assam and Cement Grinding Units in Tripura and Mizoram
8. Tata Iron and Steel Company Ltd., Sonadih, Madhya Pradesh and Jojobera, Bihar
9. Lakshmi Cement, Sirohi, Rajasthan

Chlor-Alkali

1. Hukum Chand Jute and Industries Ltd., Amlai, Madhya Pradesh
2. Kanoria Chemicals & Industries Ltd., Renukoot, Uttar Pradesh

Explosives and Accessories

1. I.B.P. Company Ltd., Manesar, Haryana
2. I.B.P. Company Ltd., Singrauli, Uttar Pradesh

Fertilizer

1. Aravali Fertilizers Ltd., Sawai Madhopur, Rajasthan
2. Tata Chemicals Ltd., Babrala, Uttar Pradesh
3. Indian Explosives Ltd., Kanpur, Uttar Pradesh
4. Sarda Fertilizers Ltd., Bishnupur, West Bengal

Foundry

1. Shriram Piston and Rings Ltd., Ghaziabad, Uttar Pradesh
2. Ranjeev Alloys Ltd., Ghaziabad, Uttar Pradesh
3. Maruti Udyog Ltd., Manesar, Haryana
4. Suzuki Powertrain India Ltd., Manesar, Haryana
5. * Maruti Udyog Ltd., Gurgaon, Haryana

Pesticides

1. HPM Industries Ltd., Alwar, Rajasthan

Petroleum Refinery/Petrochemicals/Pipeline/Storage/Exploration/Production & CBM Exploration/Production

1. Indian Oil Corporation Ltd., Panipat Refinery, Panipat, Haryana
2. UB Elastomers Ltd., Visakhapatnam, Andhra Pradesh
3. Haldia Petrochemicals Ltd., Haldia, West Bengal
4. Indian Oil Corporation Ltd., Barauni Refinery, Barauni, Bihar
5. IBP Co. Ltd., Rewari Depot, Rewari, Haryana
6. Indian Oil Corporation Ltd., Saharanpur Branch Pipeline, Noida, Uttar Pradesh
7. Indian Oil Corporation Ltd., Meerut Branch Pipeline, Noida, Uttar Pradesh
8. Indian Oil Corporation Ltd., Tundla Feeder Pipeline, Noida, Uttar Pradesh
9. Tullow India Operations Ltd., Block GK-OSJ-1, Gulf of Kachchh, Gujarat (Exploration Drilling)
10. Oil India Ltd., Block RJ-ONN-2000/1, Jaisalmer, Rajasthan (Seismic Survey)
11. Oil India Ltd., Block RJ-ONN-2001/1, Bikaner/Ganganagar, Rajasthan (Seismic Survey)
12. Okland International LDC, Oklahoma City, U.S.A., Block GK-ON-90/2, Kachchh, Gujarat (Seismic Survey)
13. Jubilant Enpro Pvt. Ltd., Block CB-ONN-2002/2, Mahesana/Ahmedabad, Gujarat (Seismic Survey)
14. Enpro Finance Pvt. Ltd. Block CY-ONN-2002/1, Cuddalore, Tamil Nadu (Seismic Survey)
15. Enpro Finance Pvt. Ltd. Block AA-ONN-2002/1, Tripura (Seismic Survey)
16. Oil India Ltd., Block RJ-ONN-2002/1, Bikaner/Ganganagar/Churu, Rajasthan (Seismic Survey)
17. Oil India Ltd., Baghewala Area, Jaisalmer/Bikaner, Rajasthan (Drilling & Production)
18. Oil India Ltd., Block RJ-ONN-2001/1, Bikaner/Ganganagar, Rajasthan (Exploration Drilling)
19. Oil India Ltd., Block RJ-ONN-2000/1, Jaisalmer, Rajasthan (Exploration Drilling)
20. Reliance Industries Ltd., Block CB-ON/1, Banas Kantha, Gujarat (Seismic Survey)
21. Reliance Industries Ltd., Block CB-ONN-2003/1 (Parts A and B), Ahmedabad/Anand, Gujarat (Seismic Survey)
22. Oil India Ltd., Ganga Valley Project, Champawat/Udhamsingh Nagar, Uttaranchal (Exploration Drilling)
23. Oil India Ltd., RJ-ONN-2001/1, Bikaner/Ganganagar, Rajasthan (Exploration Drilling-Expansion)
24. GeoEnpro Petroleum Ltd., Kharsang Oil Field, Changlang, Arunachal Pradesh (Seismic Survey and Production Drilling Expansion)
25. Geopetrol International Inc., BS(4)-CBM-ONN-2005/III, Barmer/Jalor, Rajasthan (Exploration Drilling).
26. Geopetrol International Inc., BS(5)-CBM-ONN-2005/III, Barmer/Jalor, Rajasthan (Exploration Drilling).

Pulp and Paper

1. Century Pulp and Paper Mills, Lalkua, Uttar Pradesh
2. NEPA Newsprint Plant, Kashipur, Uttar Pradesh

Thermal Power Plant

1. National Thermal Power Corporation Ltd., Mangalore, Karnataka
2. Electric Supply Company (India) Ltd., Ghaziabad, Uttar Pradesh
3. National Thermal Power Corporation, Sipat, Chhattisgarh
4. GFL Power Ltd., Chandauli, Uttar Pradesh
5. National Thermal Power Corporation Ltd., Simhadri, Andhra Pradesh
6. Jindal Stainless Ltd., Hisar, Haryana

3.4 EIA/EMP STUDIES FOR MINES

1. Tata Iron and Steel Co. Ltd., Sonadih, Madhya Pradesh
2. Lakshmi Cement, Sirohi, Rajasthan
3. Steel Authority of India Ltd., Nandini, Madhya Pradesh
4. Steel Authority of India Ltd., Dalli-Rajhara, Madhya Pradesh
5. Bhillai Steel Plant, Dulki-Kalwar, Madhya Pradesh
6. Bhillai Steel Plant, Mahamaya, Madhya Pradesh

3.5 EIA/EMP STUDIES FOR CONSTRUCTION PROJECTS

1. Maruti Udyog Ltd., Corporate Office Complex, Vasant Kunj, New Delhi
2. Jasmine Projects Pvt. Ltd. (A Bharti Enterprise), Corporate Office Complex, Vasant Kunj, New Delhi

3.6 SAFETY STUDIES

1. Lupin Laboratories Ltd., Mandideep, Madhya Pradesh (1996 and 1999)
2. I.B.P. Company Ltd., Manesar, Haryana
3. Indian Oil Corporation Ltd., Haldia Refinery, Haldia, West Bengal
4. Indian Oil Corporation Ltd., Barauni Refinery, Barauni, Bihar
5. National Engineering Industries Ltd., Jaipur, Rajasthan
6. HPM Industries Ltd., Alwar, Rajasthan
7. Rajasthan Breweries Ltd., Shahjahanpur, Distt. Alwar, Rajasthan
8. Tata Chemicals Ltd., Babarala, Distt. Badaun, U.P.
9. Oil India Safety Directorate, Govt. of India, New Delhi
10. Bharat Explosives Ltd., Lalitpur, Uttar Pradesh
11. GFL Power Ltd., Chandauli, Uttar Pradesh
12. Vitalife Laboratories Ltd., Pathreri, Haryana
13. Ranbaxy Laboratories Ltd., Paonta Sahib, H.P.
14. Panacea Biotec Ltd., Lalru, Distt. Patiala, Punjab
15. Lupin Ltd., Mandideep, Madhya Pradesh (Proposed Expansion)
16. Maruti Udyog Ltd., Gurgaon, Haryana
17. Asian Paints (I) Ltd., Kasna, Uttar Pradesh
18. Ranbaxy Laboratories Ltd., Paonta Sahib, Himachal Pradesh (Fermentation Plant Expansion)
19. National Thermal Power Corporation Ltd., Simhadri, Andhra Pradesh
20. Jubilant Enpro Pvt. Ltd., Block CB-ONN-2002/2, Mahesana/Ahmedabad, Gujarat
21. Enpro Finance Pvt. Ltd., Block CY-ONN-2002/1, Cuddalore, Tamil Nadu
22. Enpro Finance Pvt. Ltd., Block AA-ONN-2002/1, Tripura
23. Kanoria Chemicals & Industries Ltd., Renukoot, Uttar Pradesh
24. Henkel Teroson India Ltd., Gurgaon, Haryana
25. Oil India Ltd., BMLA, Jaisalmer, Rajasthan (Drilling & Production)

26. Suzuki Powertrain India Ltd., Manesar, Haryana (Foundary)
27. Oil India Ltd., RJ-ONN-2001/1, Bikaner/Ganganagar, Rajasthan (Exploration Drilling)
28. Oil India Ltd., RJ-ONN-2000/1, Jaisalmer, Rajasthan (Exploration Drilling)
29. Oil India Ltd., Kashipur & Kashipur Extn. PEL Areas, Uttarakhand (Exploration Drilling)
30. GeoEnpro Petroleum Ltd., Kharsang Oil Field (Seismic Survey & Production Drilling Expansion)
31. * Maruti Udyog Ltd., Gurgaon, Manesar (Foundry & LPG Storage)
32. Geopetrol International Inc., BS(4)-CBM-ONN-2005/III and BS(5)-CBM-ONN-2005/III, Barmer/Jalor, Rajasthan (Exploration Drilling).

3.7 SOCIO-ECONOMIC STUDY

1. National Thermal Power Corporation Ltd., Sipat, Distt. Bilaspur, Chattisgarh

3.8 ENVIRONMENTAL AUDIT

1. Lupin Laboratories Ltd., Mandideep, Madhya Pradesh
2. Udaipur Cement Works, Udaipur, Rajasthan
3. Bharat Explosives Ltd., Lalitpur, Uttar Pradesh
4. STP Ltd., Kosikalan, Uttar Pradesh
5. Heinz India Pvt. Ltd., Aligarh, Uttar Pradesh
6. Crop Health Products Ltd., Ghaziabad, Uttar Pradesh
7. Hamdard (Wakf) Laboratories, Ghaziabad, Uttar Pradesh
8. Hindustan Lever Ltd., Etah, Uttar Pradesh
9. Carrier Aircon Ltd., Gurgaon, Haryana
10. Uppal Steel & Alloys (P) Ltd., Greater Noida, Uttar Pradesh
11. Delphi Automotive Systems Ltd., Noida, Uttar Pradesh (2000, 2001 and 2002)
12. Henkel Teroson India Ltd., Gurgaon, Haryana
13. Suzuki Powertrain India Ltd., Manesar, Gurgaon, Haryana

Note:* indicates that the studies are in progress

3.9 MONITORING OF SOURCE EMISSIONS/AMBIENT AIR QUALITY AND PERFORMANCE TESTING OF AIR POLLUTION CONTROL SYSTEM

Monitoring of source emissions/ambient air quality for over 1250 industries in small, medium and large sectors involved in the manufacture of large variety of products all over the country. Performance testing of air pollution control system has also been carried out for large number of industries.

4. The Technical Experts Available With The Organization And Their Background

A. Internal Key Persons

PROF. S.K. SARAF

Presently Managing Director of Envirotech Consultants is considered to be a leading expert in the field of Chemical and Environmental Engineering. He did his graduation in Chemical Engineering from BHU, masters from IIT, Kharagpur and obtained his doctorate from MIT, USA. He has taught Chemical and Environmental Engineering courses at BHU, IIT Kanpur, University of Roorkee and IIT Delhi for nearly three decades, guided several masters and doctoral theses. He assisted in starting a M.E. Programme on Industrial Pollution Abatement and had been Head of Chemical Engineering Department at the University of Roorkee (now Indian Institute of Technology Roorkee). Since joining Envirotech Consultants in 1988, he has worked extensively in Environmental Impact Assessment and Management Studies, Air Pollution Monitoring, Environmental Audit, Safety Studies, Design and Turnkey Installation of Air Pollution Control Systems and Effluent Treatment Plants.

DR. L. M. PANDE

Presently a Director of Envirotech Consultants is considered to be a leading expert in the area of chemical process technology. He was educated at Lucknow University (M.Sc.) and Ohio State University, USA (Ph.D). He has four decades of experience in the field material sciences, organic/organometallic synthesis, medicinal chemistry and technology transfer, and as a Director in the Ministry of Science & Technology, Govt. of India, he was associated in intraministerial committees (industry, finance, chemical, commerce), involved in technology evaluation, acquisition (foreign collaboration) and international R & D. Since joining Envirotech Consultants in 1995 as a Director, he is actively involved in Process Audit and Environmental Studies.

DR. PRAVEENA SARAF

Presently a Director of Envirotech Consultants has got nearly 10 years experience in medicine and surgery. She obtained M.B.B.S. and M.S. degrees from Rajasthan University, Udaipur. She has worked as a Registrar at M.G.M. Hospital, Mumbai, and is currently working as Consultant at Manglam Hospital and Yashoda Hospital in Delhi. Since joining Envirotech Consultants in 1996 as a Director, she is working in the area of Occupational Safety and Health.

V. K. GAUTAM

Presently a Senior Executive (Technical) at Envirotech Consultants Pvt. Ltd. with over 15 years experience in EIA/EMP Studies, Environment Audit, Air Quality Modelling and Safety Studies. He obtained AMIE in Chemical Engineering from The Institution of Engineers (India), PG Diploma in Industrial Safety from Annamalai University and Technical Training as an Environmental Auditor for ISO 14001 Certification. He joined Envirotech Consultants Pvt. Ltd. in 1992 and has also worked as a Consultant at ERM (India) Pvt. Ltd. and KLG-TNO Safety Technology Ltd. for brief periods.

B. External Experts Assisting Envirotech Consultants Pvt. Ltd.

DR. A.S. CHAWLA

Dr. Chawla is considered to be an authority on water resources evaluation, development and management, and design of hydraulic structures. He did his graduation in Civil Engineering from Aligarh Muslim University and obtained his masters and doctorate from University of Roorkee. He has over 30 years of professional experience, published over 90 technical papers in prestigious journals and co-authored manuals of Ground Water and Tubewells and Canal Lining published by Central Board of Irrigation & Power (CBI&P). He has served as Head of Ground Water Division of U.P. IRI and also as Professor and Director of Water Resources Development Training Centre at University of Roorkee. He is a recipient of many Certificates of Merit by CBI&P and Institution of Engineers as well as Khosla Gold Medal. He has served as a member of the Advisory Committee of NABARD, River Valley Council, Bureau of Indian Standards and High Level Multi-disciplinary Committee constituted for reviewing the functioning of the Central Ground Water Board. He has provided consultancy for Large number of projects in different areas related to ground and surface water resources.

DR. J.H. DESAI

Dr. Desai is considered an authority on wild life management. He did MS in wild life management from University of Texas, USA, and Ph.D from MS University Baroda. He has 20 years experience in wild life management, teaching and research. He was Director of National Zoological Park, New Delhi, and Scientist SF in Wild Life Institute of India, Dehradun. He has represented India as a member of delegation to various countries. He has also authored a book 'White Tiger' published by Govt. of India.

N.D. NIGAM

Mr. Nigam is considered to be an expert in Instrumentation, Control and Safety in Thermal Power and Fertilizer Plants. After obtaining his B.Sc. (Engg.) in Electrical Power & Communications from Dayalbagh Engineering College, Agra, he worked for nearly 10 years at Obra Thermal Station and then for 3 years at Tata Consulting Engineers in areas related to design, project engineering, operation, maintenance and safety of thermal power plants. Mr. Nigam joined National Fertilizers Ltd. (NFL) in 1975 and worked at Bhatinda and Panipat plants as Head of Electrical Group and subsequently as Deputy General Manager. He retired from NFL in 1997 as Head of Marketing of Industrial Products Division. After his retirement, he is actively engaged in consultancy assignments on power system and safety aspects in reputed public and private sectors Chemical and Fertilizer Plants.

V.P. PARTI

Mr. Parti is a leading expert on all aspects of mines safety in coal, metalliferous and oil and gas mines. After obtaining his B.Sc. in Mining Engineering from BHU and First Class Certificates of Competency to manage coal and metalliferous mines, he worked in Directorate General of Mines Safety, Govt. of India, for over 30 years and retired as a Deputy Director General in 1990. He is currently empanelled as an Expert in Safety at Disaster Management Institute, Bhopal; Institute of Petroleum Safety and Environmental Management, Goa; and Oil India Safety Directorate, New Delhi. He is regularly conducting safety audits of oil and gas mines and installations of ONGC and Oil India and providing expert consultancy in the areas of Mines Safety and Environmental Management.

Dr. A. K. SARAF

He is considered to be an expert in Remote Sensing Applications in Land Use Planning and Geobotanical Exploration. He obtained his M.Sc. (Applied Geology) degree from University of Roorkee and Doctorate degree in Remote Sensing from Dundee University, U.K. He is presently working as a Professor in Remote Sensing at Indian Institute of Technology, Roorkee. He has guided several masters and doctoral theses and provided expert consultancy in remote sensing application to large number of Government Departments and Public and Private Sector Undertakings.

P.K. SRIVASTAVA

Mr. Srivastava has got 30 years experience in project planning, erection, operation, trouble shooting and environmental planning in large size chemical and steel plants. After graduation in Chemical Engineering from I.I.T. Kanpur, he joined Fertilizer Corporation of India. His 24 years experience in various fertilizer plants includes from a grass root project to fully operational plant. He has also worked as Dy. General Manager in Group Usha for its Sponge Iron Plant/Integrated Steel Unit project at Jagdishpur where he completed the utilities-offsite facilities for the two blast furnaces. Mr. Srivastava joined Envirotech Consultants in 1997 as President and worked till 2002. He was involved in EIA and Safety Studies, ETP projects, and Environmental and Energy Audits.

P.C. TYAGI

Mr. Tyagi is considered to be a leading expert on environmental management, environmental audit and environmental law and its enforcement. He did his graduation in Civil Engineering from University of Roorkee, obtained his Master of Public Health Engineering degree from Culcutta University and Bachelor of Law degree from University of Jammu. Before retiring in 1990 after a distinguished public service of 35 years, he held many important positions including Chairman, Central Pollution Control Board; Chairman, U.P. Pollution Control Board; Project Engineer, Water Supply Division, Asian Development Bank, Manila, Philippines; Chief Engineer, Uttar Pradesh Jal Nigam; and Head of Design, Water Department, Ministry of Water Development, Republic of Kenya. For last one decade, Mr. Tyagi is working as an individual consultant on short-term assignments related to environmental management, water supply and sanitation for Government of India and its undertakings, bilateral and multilateral development agencies and reputed firms of consulting engineers including Envirotech Consultants.

A.K. VASUDEVA

Presently Consultant (Safety) with Director General of Hydrocarbons (DGH) and Oil Industry Safety Directorate (OISD). He holds a B.E. (Mechanical) degree and has over 35 years experience in various positions in Offshore/Onshore oil and gas production installations of ONGC. After graduation in Mechanical Engineering, he joined as a Drilling Assistant and rose to the position of Deputy General Manager (Production) in ONGC. He has also worked as a Director (E&P) in OISD with an overall responsibility for the preparation of Safety Standards, Safety Audits, Accident Investigation Reporting and Evaluation of Safety Performance for the promotion of safety in oil/gas industry. He has submitted 153 External Safety Audit Reports for exploration and production installations of OIL and ONGC to the Ministry of Petroleum and Natural Gas, Govt. of India.