

AUTHOR INFORMATION:

Names, affiliation and qualifications of project team:

Team members who contributed to various activities of this study and preparation of this report are listed hereunder with their qualifications, experience and assignment carried out by each one of them:

Name of the EIA team member	Qualification and brief experience	Position in the EIA Team and Role
1- Dr. Muhammad Hanif, Chief Executive, ECTECH-Environment Consultants, and APEX Environment Laboratory:	<u>A- Qualifications:</u> 1- 1-M.Sc. (Chem. Tech.) Punjab Uni; Lahore; 1962. 2- Ph.D. (Chemistry) Charles University, Czech Republic; 1968. 3- Post Doctorate-Alex. Humboldt. Foundation, Senior Post Doctorate Fellow, Germany; 1974-75. <u>B- Experience/past Positions:</u> 1- Director General (R), PCSIR Labs. Complex, Lahore. 2- Director General (Ex.) Ministry of Environment, Local Government and Rural Development, Govt. of Pakistan. 3- (ex.) Consultant Environment, Category-A, Asian Development Bank. 4- (ex.) Consultant Environment, UN—ESCAP 5- Worked as Consultant on World Bank Funded Project- “Resource Conservation and Environmental Protection”. 6- Ex- Consultant to UNESCAP Bangkok Preparation of Document/Guidelines on: i- Monitoring Methodologies (Guidelines) for Monitoring of Air for UNESCAP and Asia Pacific Rim Countries. ii- Preparation of Guidelines on Environmental Statistics. <u>A few of his many multifarious Contributions include:</u> 7- Worked on project: Opportunities of Environmental Goods in Pakistan C/O IFC. 8- Worked on the project: Strengthening of Environmental Management in Pakistan- Asian Development funded project. 9- Worked on the Government Panel on Climate Change.	- Team Leader. - Principal author of reports. - Over all guidance, supervision, and participation in all the activities of the company, public dealing, administration and participation in projects and to ensure quality of the work. - Biodiversity, agriculture practices, forestry and related studies. - Public Consultations. - Public Hearings - Overall administrative and policy matter of the companies.

	10-Author of the National Environment Quality Standards (NEQS) 11-Member Panel of Experts, Private Power and Infrastructure Board (PPIB), Ministry of Water and Power, Government of Pakistan. 12-Author (one among others) of Pakistan National Conservation Strategy. 13-Author of: - i- Scientific Research papers: 104 Nos. - ii- Over 75 technical end project reports on environment. 14-Prepared over 125 EIA & 40 IEE reports. This also includes the EIA carried out on behalf of the - Asian Development Bank regarding Katmandu Valley (Nepal) Industrial Site, - Saindak Gold/copper Project, Pakistan. - Pakistan Steel, Karachi. 15-Prepared 34 Social and Environmental Impact (SEIA) Repots for funding by: The World Bank, Asian Development Bank, International Finance Corporation, DEG Germany, OPIC, consortium of local and foreign banks etc. These reports were prepared using the Guidelines as required by the lenders, of course, keeping in view also International Finance Corporation (IFC) Performance Standards of April 30, 2006 & now January 1, 2012. 16-Preparation of Resettlement Plans: Prepared Resettlement Plans for 8 industrial units. 17-Author of a large number and variety of environment related documents of diverse nature. 18-Visiting Faculty (in ENVIRONMENT) at: - i- G.C. University, Lahore for M.Phil and Ph.D. students. - ii- Kinnaird College for Women, Lahore for M.Phil.; M.Sc. and - iii- (Hones) students. 19-Lead Environmental Regulatory Compliance Auditor for EEI Corporation, Wisconsin Avenue, Bethesda, MD, USA. 20-Assignments/projects in hand: - i- Day to day advisory in environmental matters to 15 industrial units on regular basis. - ii- Working on the preparation of : - SEIA-- 5 Nos. For international	
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	funding. - EIA reports for Environmental Approvals from EPAs in Pakistan. - A lot many assignments of miscellaneous nature.	
2- Mr. Aftab Ahmad Cheema Chief Environmentalist	M.Sc. Chem. Engineering (Punjab university.). - Ex: Acting Chairman National Fertilizer Corporation; - Ex. Managing Director, Pak Arab Fertilize Corporation, Multan; Ex. Plant Manager Dawood Hercules; - EX. Plant Manager Nestle - Co-Author of all the SEIA reports as shown against the name of Dr. Hanif. - Co-author of about 40 EIA reports. - Author of about 30 IEE reports. - Conducted Energy Audit of over 30 industrial units. - Conducted Hazop of 25 industries. - Designed 6 waste water treatment plants. - Prepared over 50 Feasibility reports. - As a team member he has participated in the preparation of the Preparation of Resettlement Plans as shown against the name of Dr. Hanif. As senior team member, he is associated with all the Activities /projects in hand at present.	- Process and production and waste treatment plants designing, specialist SEIA reports writing. HAZOP, Energy Auditing and HSE specialist. Co-writer of SEIA Reports. Technical Expert on Power Plants, and other Industrial Equipment, Preparation of Feasibility Study Reports, Public Consultations etc.
3-Muhammad Saif-ur- Rehman Deputy Chief Executive	B.Sc. (Chemical Engineering), Punjab Uni. M.Sc. (Applied Environmental Sciences), Punjab Uni. Post Graduate Diploma in Environmental Sciences, (Punjab Uni.) Diploma in HES Auditing, Bangkok -General Manager, APEX Environment Lab. and -Chief Monitoring, ECTECH -Environment Consultants -Experience in Environment: For the last over 20 years working in the field of environment on the following subjects: - i- As a team member he participated in the preparation of 27 SEIA Reports as described against the name of Dr. Hanif. - ii- Designing, fabrication, installation and operation of Waste Water Treatment Plants; So far FIVE plants have been designed and installed. Carrying out Environmental Audit (EA): EA of 25 industrial units has been completed so far. - iii- Lab. Testing of effluents and water: For the last 14 years lab. Testing services	- Project on site monitoring & related activities. - Co-author of the report - Collection of demographic data. - Preparation of environmental management plan.

	have been provided. iv- Participated in preparation of EIA Reports as shown against the assignments of Dr. Muhammad Hanif. v- Author of over 30 IEE reports. vi- Lead Environmental Auditor for NIKE USA. Regular EA of the industrial units supplying goods to NIKE. vii- Lead Environmental Regulatory Compliance Auditor for EEI Corporation, Wisconsin Avenue, Bethesda, MD, USA. viii- Co worker of Mr. Cheema in carrying out HAZOP & HSE audit. ix- As a team member he has participated in the preparation of the Preparation of Resettlement Plans as shown against the name of Dr. Hanif.	
4- Dr. Qais Aslam Visiting Consultant ECTECH:	He is participating in virtually all the projects presently with the organization Ph.D. Economics Higher Institute of Economics, Sofia, Bulgaria. M. Sc. B.Sc. Economics, Higher Institute of Economics, Sofia, Bulgaria. L. L. B, Law College, University of the Punjab, Lahore. Diploma in Environmental Law -Former Chairman, Department of Economics, GC University, Lahore - HEC Approved Ph.D. supervisor in economics. - Total work experience 24 year in teaching, 10 years in Environment issues related to economics. -Visiting Professor, Environment Economics, Kinnaird College, Lahore, University of the Punjab, Lahore and Economic Department of Management Sciences in University of Veterinary Sciences and Health. - Co-author of IEE (20 Nos.), EIA (25Nos) and SEIA Reports (all standing to the credit of Dr. Hanif) with regard to their economic aspects. - Author of 35 Research Papers - Prepared, as co-author, Resettlement Plans for 6 industries. - He has been associated with almost all the SEIAS and 40 EIAs regarding their economic aspects.	Dealing with economic aspects of EIA and SEIA reports and other environment related assignments of varied nature. - EIA, IEE and SEIA reports writing - Conducting Environment related economic survey

5-Waqas Zafar Senior Sociologist	- PhD Scholar in Sociology, University of the Punjab, Lahore - M.Phil in Social Sciences (Sociology) South Asian Studies Centre, University of the Punjab, Lahore 2005. - Master in administrative sciences (Marketing), University of the Punjab, Lahore 1994. - M.A. Sociology, University of the Punjab, Lahore 1989. - B.A. Sociology, University of the Punjab, Lahore 1987. - Participated as co-author in the preparation of 16 EIA and 12 SEIA reports with regard to their social aspects. - He looks after the social aspects of all the SEIA & EIA reports	Dealing with social aspects of EIA and SEIA reports and other environment related assignments of varied nature. - EIA, IEE and SEIA reports writing-Social aspects. - Conducting Environment related social surveys.
6- Prof. Dr. M. Ikram Visiting Consultant ECTECH.	• Post-doc. (Cornell University, NY, USA) • Ph.D. Industrial Microbiology (PU) • M.Sc. Botany (PU) • (Ex.) Dean, Faculty of Science and Technology • (Ex.) Director, Institute of Industrial Biotechnology, G.C University, Lahore • (Ex.) Acting Vice Chancellor, G.C University, Lahore. • Research Publications: 251 • Conducted Research to: - PhD Students : 18 - M.Phil Students : 48 - M.Sc Students : 105 As visiting consultant to ECTECH has been working on I- Biodiversity/ Ecological: He looks after the biodiversity/ Ecological part of SEIA & IEE reports. He has so far contributed to the biodiversity/ Ecological part of all the SEIA reports (as shown above against the name of Dr. Hanif) and 40 EIA reports. II- Marine Biology: He looks after marine biology part of SEIA & IEE reports also.	- As co-author he has contributed to the writing of SEIA reports (as shown above against the name of Dr. Hanif) and 40 EIA reports. This is continuing activity as visiting consultant to ECTECH. - Presently, he is participating in all the projects going on at ECTECH. - Carrying out the study on Biodiversity, aquatic & marine biology, coastal and marine resources etc in context of preparation of EIA, IEE and SEIA reports. -Conducting of Public Consultations regarding IEE, EIA and SEIA reports. - Conducting Public Hearing in the Context of IEE, EIA and SEIA report. - Conducting surveys on Ecology in Context of IEE, EIA and SEIA report.
7- Mr. Muhammad Anis Advisor Environmental Law	B.A; L.L.B; Expert on Environment Law	- Guidance on various aspects of Environmental Law as applicable to Environmental issues including also IEE, EIA and SEIA reports and related matters. - Conducting of Public

		Consultations regarding IEE, EIA and SEIA reports with regard to environmental law. - Conducting Public Hearing in the Context of IEE, EIA and SEIA report.
8- Mr. Muhammad Mujahid -Principal Environmentalist	-M. Sc. Environmental Sciences, -M.Phil Environmental Sciences, -University of Punjab, Lahore. -Co-author for EIA (30) reports, IEE (20) and SEIA (8) reports. -Co-author of 4 Nos. Resettlement plans. -Carried out (8) Environment related surveys.	- Conducting Public Hearings regarding EIA Reports. - Carrying out public consultations regarding the IEE, EIA and SEIA. - Conducted Environment related surveys.
9- Mr. Husnain Sabir -Sr. Environmentalist	M.Sc Botany M. Phil Environmental Sciences (G.C. University Lahore)	- Conducting Ecological surveys in the context of IEE, EIA and SEIA reports.
10- Chaudhry Noor Ahmad - Principal Engineer Environment	B.Sc. Civil, Hydrological and Structural Engineering. (Karachi Uni.)	- Hydrological and agriculture studies. Structural designing and waste water treatment plant designing.
11- Mr. Mughees Rehan Senior Environmentalist	M.Sc Environmental Sciences (Punjab University Lahore, Pakistan)	- Onsite Environment monitoring, data processing. - Conducting public consultations as required by the IEE/EIA and SEIA - Conducting the Ecological surveys in the context of the IEE/EIA and SEIA reports
12- Mr. Zohaib Ahmad Sr. Lab. Analyst & Sr. Environmentalist APEX Environment Laboratory	M.Sc Chemistry (Analytical) (University of Gujrat)	- He is responsible for laboratory testing of all types of waste, water and a host of sample of diverse nature. He is backbone of all laboratory work relating to all departments of environment. - He is also responsible to carry out work on environment related data collection for SEIA, EIA and IEE. - He conducts Public Consultations & Public Hearings. - So far he has participated in 12 EIA reports writing and helped in 4 SEIA reports by provision of background information.
13- Mr. Zahir Sajjad Sr. Environmentalist	M.Sc Environmental Sciences (University of Punjab) Conduct infield environment study for SEIA,	So far he has participated in 15 EIA reports writing and helped in 3 SEIA reports by provision of

	EIA & IEE reports. - Monitoring of baseline environmental conditions of siting of new industries. - Carry out Public Consultation - Carry out Public Hearing - Environment data processing - Carry out Environment related survey. - Participation in report writing SEIA, EIA & IEE reports. - Compliance monitoring of industries.	background information.
15- Mr. Mazhar Hussain Khan Junior Environmentalist	B.S. (Hons.) Environmental Sciences (Punjab University Lahore)	-----DO-----

* The roles of the team members were not restricted to the mentioned in the above table; rather they performed many other studies to complete this SEIA report.