

2. Outline of the Survey

At the onset of the Study, the acquisition of field data as part of the Study was judged to be important together with the gathering of the latest national data for an accurate understanding of the present situation of the environment in Pakistan. Especially to the problems of the water environment with direct implications for health, the approaching to them from the field data was believed to be particularly important amidst the reported rapid deterioration of the urban environment.

In the capital city, the Study involved a series of interviews with environment-related federal government organizations, especially the Pakistan Environmental Protection Agency (Pak-EPA) of the Ministry of Environment, Local Government and Rural Development (MELGRD) and the Capital Development Authority, information gathering concerning the environment nationwide in the capital and also visits in connection with waste treatment plans.

In addition, a field survey was conducted which involved interviews with the provincial government of the North-West Frontier Province (NWFP) and municipal authority of Peshawar, the capital of the said province which was selected from among major cities in Pakistan in view of its typical population size, and field investigation.

As part of the field survey designed to analyse the urban environment from the viewpoint of the water cycle, a water basin for a case study was selected in the Hayatabad Town of Peshawar to establish the impacts of industrial waste water, domestic sewer and leachate of dumping site. The field survey plan was prepared to gather basic data on the social environment, to analyse the flow rate and water quality and to determine the quantity and quality of waste. This field survey was conducted with the cooperation of the Pak-EPA and the survey findings are shown in the Attachment of this Study Report.

The Study also involved visits to the construction site of the central waste water treatment facilities of the Pakistan Tanners Association (PTA) as an example of efforts in the private sector to improve the environment, the Marine Pollution Control Department of Karachi Port Trust (KPT) and others in Karachi city which is the largest industrial city and sole port city in Pakistan.

The present Report compiles the situation of environmental problems at a national level by subject issue and shows the characteristics of the urban environment as clarified by the field survey in boxes. The members of the Study Team and the survey schedule are shown below.

Members of the Study Team

NAME		Affiliation	
Leader	Katsuhiko YAMAMOTO	Senior Researcher, OECC	Japan Engineering Consultants Co., Ltd.
Member	Hiroki YAMAGAI	“	Japan Engineering Consultants Co., Ltd.
Member	Shigeru SAI	“	Kansai Environmental Engineering Center Co., Ltd.
Member	Hitoshi YOSHINARI	“	Techno Chubu Co., Ltd.
Member	Tsuyoshi ANNO	“	Japan Engineering Consultants Co., Ltd.
Coordinator	Hironori KUROKI	“	Japan Engineering Consultants Co., Ltd.

< Survey Schedule >

Year 2003

October	5	(Sun.)	Narita Airport → Bangkok → Karachi
	6	(Mon.)	- Karachi → Islamabad (ISB) - JICA Pakistan Office; Embassy of Japan in Pakistan
	7	(Tues.)	- Pak-EPA
	8	(Wed.)	- Islamabad → Peshawar (PSW) - North-West Frontier Province Environmental Protection Agency (NWFP-EPA)
	9	(Thurs.)	- Survey at Peshawar (river environment/solid waste/waste water) - Forest and Environment Department, NWFP - City Development and Municipal Department, Peshawar
	10	(Fri.)	- Mayor and Deputy Mayor of Peshawar - Sarhad Development Authority
	11	(Sat.)	- Pakistan Environmental Protection Foundation (NGO) - Pakistan Forest Research Institute (MELGRD) - Vehicle Emission Testing Station (VETS, NWFP-EPA)
	12	(Sun.)	- Study tour of the city (two members move from PSW to ISB)
	13	(Mon.)	- NWFP Local Government and Rural Development Department - Inspector General of Forest, MELGRD (Islamabad)
	14	(Tues.)	- Agriculture Research Council, the Ministry of Food and Agriculture (MFA) - Capital Development Authority (Islamabad Capital Territory) - Environmental Department of the MELGRD
	15	(Wed.)	- Environmental Protection Council (MELGRD) - Pakistan Council of Research in Water Resources, Ministry of Science and Technology - Visit to the planned final disposal site of waste in the capital
	16	(Thurs.)	- Health Service Academy of the Ministry of Health - ENERCON (MELGRD) - UNDP NEAP-SP2
	17	(Fri.)	- JICA Pakistan Office and Embassy of Japan in Pakistan - Islamabad → Karachi
	18	(Sat.)	- Sindh Provincial Environmental Protection Agency - Ocean Pollution Control Bureau of the Port Karachi Management Office - Pakistan Tanners' Association - Departure from Karachi
	19	(Sun.)	- Arrival in Narita via Bangkok