



## The Urban Unit organized a Training Program on Solid Waste Management

### One Month Training

The Urban Unit has always strived to create and provide environments that nurture the capacity of our current and future professionals who are responsible for the future of the urban development in our cities. The human resource of the cities of Punjab in the field of solid waste management lacks technical and managerial capacity to handle the existing and upcoming issues of solid waste management. To fulfill this gap The Urban Unit organized one month training program on solid waste management at Management & Professional Development Department (MPDD) to enhance the capabilities of future waste managers from 12th September to 14th October, 2011. Training a cadre of technically strong professionals is recognized as the best available method to achieve the objectives of sustainable development so that they can identify, learn, acquire skills & tools and approaches to resolve the problem of inadequate solid waste management.

### Participants

Forty (40) graduates out of which thirty (30) held Master level education in the fields of Environmental Engineering/Sciences, Civil Engineering & Chemical Engineering and ten (10) were practicing professionals were selected to participate in the training. The training offered a dynamic opportunity for the participants to acquire knowledge of SWM skills and tools, best practices and strategies that are realistic and suited to the country context.



Training Lecture in Progress

### The Course

The course of the training program was especially developed by the expert and technically strong staff at the Urban Unit to meet the needs of the participants. The course comprised of lectures, presentations, video sessions, questions answer session, group activities and field visits. The Urban Unit provided complete faculty support to participants in teaching the course. Lectures were conducted by experts from both outside and within the Urban Unit in order to achieve a multidisciplinary outlook for the training program and make available a range of viewpoints to the participants.

### Inaugural Lecture by Dr. Nasir Javed

Dr. Nasir Javed, Project Director the Urban Unit delivered the inaugural lecture to a full house. He introduced to the participants a range of solid waste management concepts along with existing solid waste management practices. He emphasized that the central focus of the training program for the participants is to acquire knowledge of SWM skills and tools, best practices and strategies that are realistic. He also discussed the history of solid waste management development and its intrinsic relationship with environment. He further emphasized that the objective of the training program is to equip participants to work effectively as waste managers and solid waste management specialists in Pakistan's contexts. He pointed out that the training program will enhance their analytical and strategic capacities to create a change towards solid waste management. The participants welcomed the inauguration of training on solid waste management.



Training Participants along with the Urban Unit Team

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# THE URBAN Newsletter

## Training Objectives

The training course focused on the interface between theoretical paradigms and practices across a diverse range of topics. These included but not limited to 'understanding solid waste management' to 'generation of solid waste' and 'recycling trends in Pakistan'. The participants were introduced to many key debates that have shaped the current discourse on solid waste management in developing countries.

### *The key objectives listed as under:*

- *Engage with the most important and innovative theoretical ideas on solid waste management at an advanced level.*
- *Develop an interdisciplinary understanding of the solid waste management field.*
- *Provide an opportunity for participants to improve the knowledge and skills necessary for solid waste management.*
- *Provide a better understanding of environmental laws, developing SWM guideline and effective use of SWM technologies such as waste to energy and treatment technologies.*

## Outline of the course:

- \* Introduction to Solid Waste Management (SWM)
- \* Laws & Regulations related to SWM
- \* Waste Treatment Methods
- \* Waste to Energy (WtE)
- \* Public Private Partnership (PPP) in SWM
- \* Municipal Solid Waste Disposal
- \* Landfilling
- \* Rehabilitation of Dumpsites
- \* Environmental Monitoring
- \* Preparation of SWM Plans
- \* Communication Strategies related to SWM
- \* Inter-relation of Other Sectors with SWM



Visit to Lahore Waste Management Company



Dr. Nasir Javed, Mr. Khalid Majeed and Dr. Kiran Farhan delivering the lecture

## The training attracted people from all walks of life including:

- Consultants working on urban services, recycling, or waste management.
- Representatives or staff of other stakeholders including community groups, NGOs, and the private sector.
- Entrepreneurs wishing to expand or strengthen their solid waste portfolios.
- Academicians and scholars in urban environmental management.
- Donors interested in supporting future waste management activities.
- Local experts interested in using or replicating the result.

## Guest Speakers

**Mr. Azher Uddin Khan**, Managing Director, NEC Consultants  
**Mr. Jawad Rauf Qureshi**, Solid Waste Management Consultant  
**Dr. Muhammad Nawaz Ch**, Professor, University of the Punjab, Lahore  
**Dr. Syeda Adila Batool**, Assistant Professor, University of the Punjab, Lahore  
**Mr. Zahid Baig Mirza**, Professor, KCWU, Lahore  
**Almas Hamid**, Head, Department of Environmental Sciences, KCWU, Lahore  
**Dr. Mansoor Imam**, Professor, Sir Syed University of Engg. & Tech., Karachi  
**Ms. Nazifa Butt**, Senior Program Officer, WWF Pakistan  
**Ms. Mahvish Azim Ilyas**, Green School Program Officer, WWF Pakistan  
**Mr. Khalid Majeed**, G. M. Operations, Lahore Waste Management Company  
**Mr. Ahmad Rafay Alam**, Senior Advocate, Hassan & Hassan Advocates  
**Mr. Jawad Ahmed Khan**, Environmental Manager, Tetra Pak Pvt.(Ltd.), Lahore  
**Mr. Sayed Hassan Ali Shah**, North Sindh Urban Services Company  
**Mr. Aftab-ur-Rehman Rana**, Sustainable Tourism Development of Pakistan  
**Mr. Asef Basheer Farouque**, SWM Specialist, Waste Busters, Lahore  
**Mr. Yasir Ilyas**, Environment Consultant, Aagahi  
**Mr. Junaid Habib Ullah**, Director HWM, Shalamar Hospital, Lahore  
**Mr. Jalil Ahmad Khan**, Consultant, Lahore Compost Pvt. Ltd.  
**Ms. Memoona Arsalan**, Manager Comm., Lahore Waste Management Company  
**Mr. Rafeeq Jatoi**, Director, City District Government, Lahore  
**Mr. Waqar Butt**, Chief PPP, P & D Department, Govt. of the Punjab  
**Mr. Abdul Shakoor Bhutta**, Landfill Site Officer, CDG, Multan  
**Mr. Muhammad Ikram & Ms. Sadia Iram**, SMILE Office Sohawa  
**Mr. Ghulam Mustafa**, A.M. Operations, Lahore Waste Management Company  
**Mr. Maeda Masakazu**, SWM Master Planning Expert, JICA

## Evaluation

A comprehensive performance based ranking system was designed and adopted in the training course to evaluate the trainees against the set standards. This includes class participation, assignments, attendance, weekly tests and a final evaluation test on the last day. The final grading and in turn the students positions were based on the results of the above mentioned components. The successful students were those whose overall grade was above 70%.

## Outcomes

Thirty five (35) fresh graduates/master students and five (5) governmental officers from the LG&CDD were provided up to date knowledge and skills required for the management of solid waste. These trainees will certainly bring a positive change in the society in one way or the other. Similarly the training managed to get experts from all over Pakistan together on one platform to discuss the critical issue of waste management in an efficient way.

## Future Prospects

The Urban Unit P&D Department plans to continue the training program in the future. The second session of the training program will be announced in January 2012. The Government of Khyber Pakhtunkhwa (KPK) stated that this training was very successful and appreciated the Urban Unit's efforts in the capacity building of the human resource within the SWM sector. In addition, the KPK Government has shown their interest to conduct the same training in Peshawar in collaboration with P&D Department KPK and UET Peshawar.

## Training Highlights

- \* Presentations
- \* Lectures
- \* Q/A Sessions
- \* Field Visits
- \* Video Sessions
- \* Assignments
- \* Case Studies
- \* Evaluation Tests
- \* Group Discussions

## Closing Ceremony

The closing ceremony was held at MPDD on 14th October, 2011. Barrister Nabeel Awan (DCO Gujranwala) chaired the ceremony and while sharing his views on the training, he appreciated this effort of the Urban Unit and emphasized upon the importance of capacity building in the solid waste management departments within the Local Government. He was hopeful that similar initiatives would certainly build the future of our cities in the right direction.

The certificates to the participants were also awarded during the closing ceremony. Barrister Nabeel Awan (DCO Gujranwala) and Mr. Maeda (Chief Consultant JICA) distributed the certificates to the successful participants. Mr. Abdul Razzaq (Sr, M&E Specialist, The Urban Unit) delivered the note of thanks on behalf of the Urban Unit and presented a shield/memento to the Chief Guest.



Mr. Abdul Razzaq presenting a shield to the Chief Guest



## JICA Mission for Integrated Solid Waste Management Master Plan study in Gujranwala

The Urban Unit with the assistance of JICA commissioned a sector study to take stock of the current status, problems, and necessity of the assistance in SWM sector in seven of the major cities of Punjab in 2009. The study identified Gujranwala city as the highest priority among the surveyed cities. On the basis of this study the Urban Unit along with the City District Government Gujranwala (CDGG) requested JICA for technical cooperation to formulate the SWM master plan to address improvements of SWM in Gujranwala. In response to the request, the Japanese detailed planning team headed by Ms. Hiroko Kamata visited Pakistan from September 28 to October 19, 2011 for the purpose of discussing and confirming the scope of work and formulating the project for Integrated Solid Waste Management Master Plan in Gujranwala.

During its stay, the team held a series of discussions with the representatives of Government of the Punjab and CDG Gujranwala and agreed on the scope of work. The Secretary P&D Department, Secretary Local Government, CDG Gujranwala and JICA signed the initial document of bilateral agreement on October 11, 2011.



Experts from JICA briefing the Secretary P & D and other stakeholders

### Tentative Implementation Plan

- The first phase of the project spans over one and a half year. During this period extensive study for the preparation of SWM Master Plan for the city of Gujranwala will be prepared.
- In the next phase, based on the findings of the study, a grant aid will be provided by JICA for the project implementation.
- During the same time the human resource developed through the first hand knowledge sharing of Japanese experts will be appointed in other cities to start the Master Plan Studies.
- The Technical Assistance from JICA for Solid Waste Management Master Planning is very aspiring project and the Urban Unit is looking forward to initiate remodelling of existing system through engaging qualified professionals in the field of SWM.



JICA Mission

### Outline of the Project

1. To develop a Master Plan of Integrated Solid Waste Management for Gujranwala City
2. To enhance the Institutional Capacity for Implementation of the SWM Master Plan
3. To draw lessons and best practices for replication of the Master Plan in other cities of Punjab



Signing ceremony of bilateral agreement for ISWM master plan study

