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Centers for Advanced Studies in **Water**



# ***RECOMMENDATIONS***

## **Policy Seminar on Industrial Wastewater Management**



**Karachi**

**December 2018**

**Partnering Universities:**



**MEHRAN UNIVERSITY**  
of Engineering & Technology  
Jamshoro, Pakistan

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## **INTRODUCTION**

The US-Pakistan Center for Advanced Studies in Water (USPCAS-W), Mehran University of Engineering and Technology (MUET), Jamshoro is focusing on applied policy research on major issues confronting Pakistan's water sector, including wastewater management.

As a part of this initiative, the center organized a Policy Seminar on "Industrial Wastewater Management", at the Pearl Continental Hotel, Karachi on 15<sup>th</sup> December, 2018. Overall objective of the seminar was to discuss the current situation, challenges and advancements relating to industrial wastewater management and to provide a platform for raising awareness of industry managers and policy makers about the solutions to industrial wastewater management, sharing of latest research and best practices in wastewater management technologies, and seeking stakeholders' guidance for framing future research agenda in this area.

## **OVERVIEW OF THE SEMINAR**

**Guest Speakers:** Justice (Rtd.) Amir Hani Muslim, Chief, Judicial Water Commission, Sindh  
Mr. Muhammad Taimur Talpur, Minister of Environment, Sindh Government  
Mark Sorensen, USAID Acting Mission Director Sindh and Balochistan  
Dr. Bakhshal Lashari, Project Director, USPCAS-W, MUET, Jamshoro  
Prof. Dr. Mohammad Aslam Uqaili, Vice Chancellor, MUET  
Muhammad Waseem Vohra, Chairman, FPCCI Standing Committee  
Business-Academia Collaboration on Water

**Key Note Speakers:** Mr. Gulzar Feroz, Chairman, FPCCI Standing Committee on Environment  
Mr. Naeem Mughal, Director General, Sindh EPA  
Dr. Jeff Ullman, University of Utah, USA  
Mr. Muslim S. Mohamedi, CEO, M.A. Mohamedi & Co  
Mr. Dost Mohammed Baloch, Director Operations, Matol Industries  
Mr. Saqib Najam, CEO, Orient Water Technologies, Karachi  
Dr. R. B. Mahar, Professor, USPCAS-W, MUET, Jamshoro  
Dr. Zubair Ahmed, Professor, USPCAS-W, MUET, Jamshoro

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**Seminar Moderators:** Dr. M. Aslam Chaudhry, Deputy Project Director, USPCAS-W, MUET, Jamshoro & Professor at University of Utah, USA

Dr. Steve Burian, Director, USPCAS-W, MUET Jamshoro & Professor at University of Utah, USA

**Participating Organizations:** Representatives from Textile Industry, Sugar Industry, FPCCI, EPA, KATI, WASA, SIDA, Civil Society, NGOs, Pakistan Business Council, WISP, Faculty Members and Students from USPCAS-W, MUET, Jamshoro, and University of Utah, USA.

### **SEMINAR BRIEF**

It was well represented by the stakeholders from relevant organizations and industries, Faculty Members and Students from USPCAS-W, MUET, Jamshoro and University of Utah, USA. Besides, the USAID team led by Deputy Mission Director Mr. Mark Sorensen, Vice Chancellor MUET, and professionals and faculty members from University of Utah, USA also participated.

The seminar included two technical sessions, one chaired by Justice (Rtd) Amir Hani Muslim, Chief, Judicial Water Commission, Sindh and other by Mr. Muhammad Taimur Talpur, Minister of Environment and Climate Change, Government of Sindh. Dr. Steve Burian, Director USPCAS-W UU and Prof. Dr. M. Aslam Chaudhry, Deputy Project Director USPCAS-W acted as moderators of the two sessions. The seminar generated a lot of interest among the participants which led to a very useful discussion on various issues related to industrial wastewater management.

Based on these discussions and the presentations made by different speakers, the center has compiled a set of recommendations for consideration of the government and its subsidiary organizations as well as industrialists and other stakeholders for addressing the issues related to industrial wastewater management.

### **KEY RECOMMENDATIONS:**

1. Make the industrial units accountable for controlling untreated wastewater and to find out the sustainable solutions for treatment and safe disposal of effluent.
2. Support the environmental laws compliance for local and export purposes, through expedition in the planned installation and operation of 05 Combined Effluent Treatment Plants (CETPs) in next 2 years to support the 06 industrial zones in Karachi: 1. Korangi Industrial Area, 2. SITE Industrial Area, 3. Landhi Industrial Area, 4. F.B. Area Industrial Area, 5. North Karachi Industrial Area and 6. Super Highway Industrial Area.

### **Policy Seminar on Industrial Wastewater Management**

3. Establish a mechanism for policy and institutional reforms for industrial development through the support and participation of government, industry, academia and community.
4. Strengthen the consultation and collaboration between stakeholders and trade associations like: KATI, LATI, S.I.T.E, and FPCCI for tackling issues on wastewater.
5. Government should step in to facilitate and fund identification/ development of appropriate technology for cost effective treatment of industrial wastewater.
6. Undertake necessary steps to improve the fragmented institutional responsibility for wastewater and optimization of the re-use of wastewater.
7. Identify/ develop homegrown solutions by utilizing the research expertise of organizations like the US-Pakistan Centre for Advanced Studies in Water, Mehran University Engineering and Technology, Jamshoro and other relevant organizations.
8. Arrange/ avail support of academia for evaluation of existing water and wastewater systems, and further recommendation for up-gradation and design of water and wastewater systems infrastructure and for capacity building of operation and maintenance staff.
9. Expand Sindh Environmental Protection Agency (SEPA) to district level for detailed training of staff for real time monitoring and further to develop outsourcing mechanism for environmental monitoring.
10. Enforce extensive public awareness campaign through print and electronic media to sensitize general public for protection and conservation of natural resources.
11. Encourage and support Public Private Partnership mode for construction and operation of Combined Effluent Treatment Plants (CETPs) and large wastewater treatment plants.
12. Ensure adequate supply of fresh water by the governmental agencies as per needs of the industrial zones.
13. Acquire and consolidate collection of reliable data and generate new knowledge through applied research in wastewater management to guide policy making at national, provincial and local levels.
14. Attach due importance to solid waste management which also causes wastewater like situation around the living areas throughout the province.
15. Organize periodic seminars/ forums on industrial wastewater management with a deeper research dive and involvement of selected/ relevant stakeholders.
16. Establish cross-sector and multi-dimensional task force focused on implementation of recommendations.



PICTURE GALLERY



**End of Report**