

## *Conference Program & List of Presented Papers*

# WasteSafe 2017

## 5<sup>th</sup> International Conference on Solid Waste Management in South Asian Countries

25-27 February 2017

Khulna, Bangladesh

### **Chairmen of the Conference**

***Prof. Dr. Muhammed Alamgir***

*Khulna University of Engineering and Technology, Bangladesh*

***Prof. Dr. W. Bidlingmaier***

*ORBIT Group*

***Prof. Dr. Raffaello Cossu***

*University of Padova, Italy*

***Prof. Dr. Eckhard Kraft***

*Bauhaus University Weimar, Germany*

***Prof. Dr. Toshihiko Matsuto***

*Hokkaido Univ, Japan & IWWG-ARB (Asian Regional Branch)*

### **WasteSafe**

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### ***Jointly Organized by***

Khulna University of Engineering and Technology, Bangladesh

Bauhaus University Weimar, Germany

University of Padova, Italy

International Waste Working Group (IWWG)

ORBIT Group

# WasteSafe 2017

5<sup>th</sup> International Conference on  
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## Conference Program

25 February 2017, SATURDAY: Pre-Conference Day

19:30 - 20:30: Meeting of the International Advisory Board at Khulna

26 February 2017, SUNDAY: Conference Day I

09:00 - 10:30 : Inauguration at Room No# 01, CE Annex, KUET

09:00 - 10:30

- **Welcome Address:** *Prof. Dr. Muhammed Alamgir*  
*Chair, WasteSafe 2017 International Conference and*  
*Vice-Chancellor, KUET, Khulna, Bangladesh*
- **Address by the Co-Organizer**  
*Prof. Dr. Eckhard Kraft* , Bauhaus University Weimar, Germany  
*Prof. Dr. Maria Cristina Lavagnolo*, University of Padova, Italy
- **Theme Paper:** *Prof. Dr. Liz Bachhuber*, Bauhaus University  
Weimar, Germany  
“ New Perspectives Through Joint Research Activity”
- **Special Guests Speech:**  
*Mr. Jason Mitchell Belanger*, Country Director, SNV Bangladesh  
*Dr. Md. Khairul Islam*, Country Representative, WaterAid  
Bangladesh
- **Address by the Guest of Honor:**  
*Prof. Dr. Werner Bidlingmaier*, Pioneer & Leader of Waste  
Management, Germany
- **Address by the Chief Guest:** *Mr. Sk. Harunur Rashid*  
Chairman, Khulna Zilla Parishad, Bangladesh

**11:00 - 12:45: Keynote Session (Room #01, CE Annex, KUET)**

(26 February 2017, SUNDAY)

11:00-13:00	<b>Session Chair: Dr. Nawa Raj Khatiwada</b> Dept. of Env. Science and Engineering Kathmandu University, Dhulikhel, Kavre, Nepal
11:00-11:30	<b>Prof. Dr. Echard Kraft</b> <i>Potential of Anaerobic Digestion to Increase Food Chain Value of Aquaculture Systems</i>
11:30-12:00	<b>Prof. Dr. Sadhan Kumar Ghosh</b> <i>Circular Economy and 3Rs - Reduce, Reuse, Recycle, for efficient use of resources in the Asia and the Pacific</i>
12:00-12:30	<b>Prof. Dr. Maria Cristina Lavagnolo</b> <i>Waste Management educational projects in low income countries</i>
12:30-12:45	<b>Discussion on the Presented Keynote Papers</b>
12:45-13:15	<b>Video "Handmade in Bangladesh" by Prof. Liz &amp; her Team</b>

**14:30-16:10: Parallel Technical Sessions A1 & B1**

(26 February 2017, SUNDAY)

	<b>Session A1 (Room #01, CE Annex)</b>	<b>Session B1 (Room #207, CE Bldg.)</b>
	<b>Chair of the Session:</b> <b>Prof. Dr. Quazi Hamidul Bari</b> Director, Institute of Disaster Management Khulna University of Engineering & Technology, Bangladesh	<b>Chair of the Session:</b> <b>Prof. Dr. Mario Malagoli</b> Department of Agronomy Food Natural resources Animals and Environment University of Padova, Italy
14:30-14:40	<b>ID- 145</b> (p. 152) Valorisation of spend coffee grounds as an energy source <i>Francesca Giroto and Maria Cristina Lavagnolo Italy</i>	<b>ID- 124</b> (p. 32) Project Report on Improvement Project on Waste Management in the Community Society in Khulna City, Targeting at Waste Pickers - in an Effort to Make Harmonious Coexistence with the Society, Focused on the Point of View of Consideration for Disadvantaged Members of Society in South Asia <i>Hideki Sato and Md. Maksudur Rahman Japan</i>
14:40-14:50	<b>ID- 003</b> (p. 175) Reusing and Recycling Practice of Old Furniture in Dhaka, Chittagong and Munshigonj <i>Sudipta Chakraborty, Q. Hamidul Bari, Md. Al-Amin and Avishek Ghosh Bangladesh</i>	<b>ID- 047</b> (p. 101) Solid Waste Management System in Kushtia Pourashava, Bangladesh <i>Ummul Khair Farwa Turin, Md. Nazmus Sakib and Muhammad Rashidul Hasan Bangladesh</i>

14:50-15:00	<p><b>ID- 030</b> (p. 168)          Uses of Plastic Waste Products:          Opportunities for Reuse and          Recycling  <i>Munkar Khan, Mohoua Sobnam and Jussi          Dayna Biswas          Bangladesh</i></p>	<p><b>ID- 077</b> (p. 83)          Effect of Rice Husk Biochar on          Moisture Storage Capacity of Sandy          and Clay Soil Under Common          Irrigation Practice  <i>S M Rafsan, Lamiya sharmeen Jaren,          Afsana Khan and Quazi Hamidul Bari          Bangladesh</i></p>
15:00-15:10	<p><b>ID- 006</b> (p. 150)          Printing Press Solid Waste Recycling          in Dhaka City  <i>F. Tabassum, Q. H. Bari and M. M.          Rahman          Bangladesh</i></p>	<p><b>ID- 165</b> (p. 15)          Study on the Environmental Impacts of          Battery Driven Vehicles and Fuel          Driven Vehicles (Three Wheeler) in          Khulna City  <i>Adil Ahmmed, S. M. Tariqul Islam and          Muhammed Alamgir          Bangladesh</i></p>
15:10-15:20	<p><b>ID- 081</b> (p. 146)          Safe, Sustainable &amp; Ecofriendly Solid          Waste Management in Municipal          Areas of Bangladesh – by Converting          Non-Recyclable Waste into          Renewable Energy  <i>Abhishekh Barua          Bangladesh</i></p>	<p><b>ID- 108</b> (p. 24)          Prediction of Solid Waste Generation          Rate and Determination of Future          Waste Characteristics of South-          Western Region Using Artificial Neural          Network  <i>Ashik, M. A., Nazmul, M. H. and Rafizul, I.          M.          Bangladesh</i></p>
15:20-15:30	<p><b>ID- 090</b> (p. 151)          Fabrication And Characterization of          Waste Cement Kiln Dust to          Manufacture Polymer Concrete          Composites  <i>Sajib Aninda Dhar, Md. Abdul Gafur, Md.          Masud Mia, Tasnuva Farzana Tama and          Most. Sheauly Khatun          Bangladesh</i></p>	<p><b>ID- 139</b> (p. 42)          Treatment of High Chromium-          Containing Tannery Wastewater using          Indigenous Plant Charcoal–An          Approach to Waste Management  <i>Md. Abul Hashem, Md. Shahrul Nur-A-          Tomal and Md. Hasibur Rahman Sheikh          Bangladesh</i></p>
15:30-15:40	<p><b>ID- 089</b> (p. 162)          Feasibility of Recycled Aggregate as          Sub-base Material: A Need for          Sustainable Environment  <i>Md. Habibur Rahman          Bangladesh</i></p>	<p><b>ID- 024</b> (p. 65)          Individualize of Private and          Government Authorised Waste          Collection System – A Sustainable          Solution for the Community: A Case          Study on Nirala and Basupara, Khulna          City, Bangladesh  <i>Md. Sohanur Rahman, Md. Nazmul Haque          and Md. Manjur Morshed          Bangladesh</i></p>
15:40-15:50	<p><b>ID- 088</b> (p. 30)          Study on Solid Waste Management          (SWM) Strategy of a University          Campus in Bangladesh  <i>H. R. Nur, M. S. Hossain and Md.          Shahinur Rahman          Bangladesh</i></p>	<p><b>ID- 157</b> (p. 48)          Used Ceramic Waste and Lightweight          Precast System in Building: A Waste          Reduction Approach  <i>Md. Hamidul Islam, Zahid Hasan and          Ismail Saifullah          Bangladesh</i></p>

15:50-16:00

**ID- 023** (p. 63)  
Case Study on Solid Waste Management in Jessore City  
*Md. Shimul Hossain, Md. Shaheen Shah, Mst. Rehana Akter, Md. Rashidul Islam and Simanto Kumar Pal*  
Bangladesh

**ID- 138** (p. 158)  
Bangladesh Could Produce Huge Amount of Glue from the Unused Goat Head Skin by Means of Cleaner Management  
*Md. Abul Hashem, Md. Shahruk Nur-A-Tomal, Md. Hasibur Rahman Sheikh and Syeda Anika Bushra*  
Bangladesh

### 16:30-18:00: Parallel Technical Sessions A2 & B2

(26 February 2017, SUNDAY)

	<b>Session A2 (Room #01, CE Annex)</b>	<b>Session B2 (Room #207, CE Bldg.)</b>
	<p><b>Chair of the Session:</b> <b>Dr. Umesh Kumar Singh</b> Department of Integrated Science Education and Research Siksha Bhavana (Institute of Science), Visva-Bharati University, Santiniketan-731235 West Bengal, India</p>	<p><b>Chair of the Session:</b> <b>Engr. Md. Abdullah</b> Managing Director Khulna WASA</p>
16:30-16:40	<p><b>ID- 029</b> (p. 71) Solid Waste Collection Vehicle Route Optimization of Khulna Metropolitan Area: Effective Waste Collection Process in Khalishpur Thana <i>Mohaimin Azmain and Abrar Rubayat Islam</i> Bangladesh</p>	<p><b>ID- 009</b> (p. 166) Suitability of Recycled Coconut Fiber as Filter Media for the Treatment of Wastewater <i>Muhammad Toriqul Islam, Md. Saiful Islam, Ismail Saifullah, Debrata Datta and Asif Ahmed</i> Bangladesh</p>
16:40-16:50	<p><b>ID- 056</b> (p. 51) Solid Waste Management in Pabna Pourashava : A Case Study on Ward No 10 &amp; 11 <i>Md. Merazul Islam, Md. Juel Rana and Jibon Kumar Ray</i> Bangladesh</p>	<p><b>ID- 042</b> (p. 160) Environmental and Technical Aspects of Recycling of Tannery Sludge in Brick Production <i>Md. Ariful Islam Juel, Al-Mizan and Tanvir Ahmed</i> Bangladesh</p>
16:50-17:00	<p><b>ID- 076</b> (p. 81) Development of Municipal Solid Waste Management Outline for Joypurhat Town of Bangladesh <i>Ratnadip Saha, Nilanjana Bhowmick, Ujjwal Mondol and M. S. Hossain</i> Bangladesh</p>	<p><b>ID- 065</b> (p. 185) A Study on Resource Recovery Potential from Kitchen Waste in Bhashantek Slum <i>Taif Hossain Rocky, Shehabul Munir and Uttam Kumar Saha</i> Bangladesh</p>

17:00-17:10	<p><b>ID- 079</b> (p. 187)  Energy Recovery from Municipal Solid Waste of Jessore Town in Bangladesh  <i>Ujjwal Mondol, Md. Saiful Islam, M. S. Hossain and Ratnadip Saha</i>  Bangladesh</p>	<p><b>ID- 106</b> (p. 27)  Enrichment and Ecological Risk Assessment of Soil from Waste Disposal Site in Bangladesh: A Spatial and Temporal Appraisal Using GIS  <i>Fahmida, K. and Rafizul, I. M.</i>  Bangladesh</p>
17:10-17:20	<p><b>ID- 114</b> (p. 75)  Solid Waste Management for Better Living Environment: A Case Study on Ward No 1 &amp; 2 of Pabna Pourashava Area  <i>Muhammad Rashidul Hasan, Md. Marufuzzaman and Florance Popy Biswas</i>  Bangladesh</p>	<p><b>ID- 134</b> (p. 44)  Evaluation of Water Quality and Sanitation System in Selected Slum Areas of Dhaka City  <i>Md. Ashrafuddoula Dipu and Fahad Hasan</i>  Bangladesh</p>
17:20-17:30	<p><b>ID- 135</b> (p. 54)  A GIS Based Suitability Analysis for Waste Dumping Zone – To Improve the Present Condition of the Community: A Case Study on Ward 24 (Nirala), Khulna City, Bangladesh  <i>Md. Nazmul Haque, Md. Mehedi Hasan Khan and Tanmoy Chakraborty</i>  Bangladesh</p>	<p><b>ID- 156</b> (p. 164)  Resource Recovery from Plastic Waste Generated at KUET Campus  <i>Md. Razib Sarder, Noman Al-Hafiz and Muhammed Alamgir</i>  Bangladesh</p>
17:30-17:40	<p><b>ID- 162</b> (p. 169)  Solid Waste Generation and Recycling in Bangladesh: Scenario of major cities  <i>Noman Al- Hafiz, Md. Hasibul Hasan, Mohammad Ataur Rahman and S. M. Tariqul Islam</i>  Bangladesh</p>	<p><b>ID- 105</b> (p. 122)  Application of Software for Investigating Desiccation Crack and Shrinkage Behavior of Composite Clay used in Waste Landfill  <i>Datta, D., Samiul, M. H., Rafizul, I. M. and Hasibul, M. H.</i>  Bangladesh</p>
17:40-17:50	<p><b>ID- 002</b> (p. 148)  Scenario of Old Book Reusing in Dhaka City  <i>Akshar Chakraborty and Sudipta Chakraborty</i>  Bangladesh</p>	<p><b>ID- 096</b> (p. 38)  Present Outlook of Sustainable Solid Waste Management: A Case Study of Dhaka  <i>Jaher Wasim and AKM Hasan Julker Nine</i>  Bangladesh</p>

## 27 February 2017, MONDAY: Conference Day II

### 09:00-10:40: Parallel Technical Sessions A3 & B3

(27 February 2017, MONDAY)

	<b>Session A3 (Room #01, CE Annex)</b>	<b>Session B3 (Room #207, CE Bldg.)</b>
	<b>Chair of the Session:</b> <b>Prof. Maria Cristina Lavagnolo</b> Environmental Engineering DII, University of Padova Italy	<b>Chair of the Session:</b> <b>Mr. Jason Mitchell Belanger</b> Country Director, SNV Bangladesh
09:00-09:10	<b>ID- 151</b> (p. 40) The Influence of Environmental Awareness on Human Attitude to Solid Waste Management – A Behavioral Perspective <i>Jhumana Akter and Md. Ikramul Hoque</i> <i>Bangladesh</i>	<b>ID- 091</b> (p. 227) Evaluation on the Impacts and Alternatives of Passenger Train Toilets in Bangladesh <i>Sunzid Hassan and K. M. Iqbal</i> <i>Bangladesh</i>
09:10-09:20	<b>ID- 025</b> (p. 135) Determination of the Degradation Rate of A Selected Organic Waste Mixed With Compost <i>Shamrita Zaman and Quazi Hamidul Bari</i> <i>Bangladesh</i>	<b>ID- 131</b> (p. 210) Faecal Sludge Management in Kushtia Municipality and Co-Composting With Organic Solid Waste <i>Noman Al- Hafiz and Muhammed Alamgir</i> <i>Bangladesh</i>
09:20-09:30	<b>ID- 015</b> (p. 124) Quantitative Estimation of Leachate from A Pilot Scale Landfill Lysimeter <i>Manandhar Dinesh Raj, Khanal Sanjay Nath and Hogland William</i> <i>Nepal</i>	<b>ID- 150</b> (p. 225) Effect of Faecal Sludge Co-Compost on Germination and Growth of Pot Marigold ( <i>Calendula Officinalis</i> ) <i>Sk. Nazmus Sakib and S. M. Abdul-Awal</i> <i>Bangladesh</i>
09:30-09:40	<b>ID- 161</b> (p. 125) Sustainable Production of Renewable Energy from Leachate Phyto Treatment <i>Mario Malagoli, Francesco Garbo and Maria Cristina Lavagnolo</i> <i>Italy</i>	<b>ID- 103</b> (p. 229) Resource Recovery from Faecal Sludge: A Potential Co-Composting Approach <i>Tonmoy Debnath, S. M. Tariqul Islam, Noman Al- Hafiz And Muhammed Alamgir</i> <i>Bangladesh</i>
09:40-09:50	<b>ID- 014</b> (p. 67) Waste Collection Vehicle Routing Management with Time Windows using GIS in Rajshahi City Corporation <i>Md. Zahur-Uz-Zaman, Nishat Anjum and Julia Rahman</i> <i>Bangladesh</i>	<b>ID- 152</b> (p. 221) Socio-Cultural Acceptability of Community Sanitation: The Case of Bastuhara Informal Settlement, Khulna <i>Sarder Shakil Ahmed and Sk. Kabir Ahmed</i> <i>Bangladesh</i>

09:50-10:00	<b>ID- 146</b> (p. 139) Innovative Management of Semi Aerobic landfill in Tropical Climate Valentina Grossule and Maria Cristina Lavagnolo <i>Italy</i>	<b>ID- 163</b> (p. 207) Analysis of Socioeconomic Aspects of Faecal Sludge Management: A Study in Khulna City Mehedi hasan Mishuk, S. M. Tariqul Islam and Muhammed Alamgir <i>Bangladesh</i>
10:00-10:10	<b>ID- 130</b> (p. 127) Evaluation of A Semi-Passive Peat Biofilter System Treating Landfill Leachate Under Varied Loading Rates <i>Md. Khalekuzzaman and Pascale Champagnee Bangladesh</i>	<b>ID- 158</b> (p. 203) Study on Existing Faecal Sludge Management Situation in Rajshahi City <i>Md. Niamul Bari Bangladesh</i>
10:10-10:20	<b>ID- 055</b> (p. 69) Performance Study on the Burning Unit at Waste Management Plant in KUET at Bangladesh <i>Mishon Kumar Sutradhar, Ananya Sarker, Muhammed Alamgir and S. M. Tariqul Islam Bangladesh</i>	<b>ID- 155</b> (p. 198) Faecal Sludge Containment and Emptying in Slums of Khulna <i>Irfan Shakil and Shilpi Roy Bangladesh</i>
10:20-10:30	<b>ID- 100</b> (p. 58) Electricity and Biogas Generation Potential from Five Type Areas of Dhaka City <i>Md. Sayeed Ur Rahim Mahadi, Taif Hossain Rocky and Uttam Kumar Saha Bangladesh</i>	<b>ID- 149</b> (p. 205) Establishing Performance Standard for Public Toilets for City-wide FSM Services in Khulna City <i>Md. Shahidul Islam and Rajeev Munankami Bangladesh</i>

### 11:00-12:40: Parallel Technical Sessions A4 & B4

(27 February 2017, MONDAY)

	<b>Session A4 (Room #01, CE Annex)</b>	<b>Session B4 (Room #207, CE Bldg.)</b>
	<b>Chair of the Session:</b> <b>Mr. Rajeev Munankami</b> Senior Advisor/FSM Programme Leader SNV Bangladesh	<b>Chair of the Session:</b> <b>Prof. Sadhan Kumar Ghosh</b> Mechanical Engineering Department Jadavpur University, India
11:00-11:10	<b>ID- 137</b> (p. 223) Tools for Faecal Sludge Management <i>Shramana Dey, Sujaya Rathi, Asian Institute of Technology and CEPT University India</i>	<b>ID- 110</b> (p. 132) Spatial Distribution of Heavy Metals in Soil of Waste Landfill: Application of GIS and Multivariate Statistics <i>Sanjida, K. and Rafizul, I. M. Bangladesh</i>



11:10-11:20	<b>ID- 123</b> (p. 200) Safe Disposal of Faecal Sludge using Co-Composting <i>Md. Alamin, Quazi Hamidul Bari, Md. Saiful Islam and Kh. Mahbub Hassan</i> Bangladesh	<b>ID- 107</b> (p. 137) Simultaneous Chemical Coagulation and Physical Treatments of Leachate Generated from Waste Landfill in Bangladesh <i>Ujjwal, M., Bari, Q. H. and Rafizul, I. M.</i> Bangladesh
11:20-11:30	<b>ID- 132</b> (p. 213) Differences among the Faecal Sludge Treatment in Various Municipalities of Bangladesh: Experience from Ground Learning <i>Noman Al- Hafiz and Muhammed Alamgir</i> Bangladesh	<b>ID- 129</b> (p. 86) Rainwater Harvesting & Grey Water Management by Artificial Infiltration for Recharging Shallow Groundwater <i>Sk. Md. Imdadul Islam and Md. Jahir Uddin</i> Bangladesh
11:30-11:40	<b>ID- 153</b> (p. 219) Existing Faecal Sludge Management Practices in Selected Areas of Khulna City <i>Sabok Mondal and S. M. Moniruzzaman</i> Bangladesh	<b>ID- 117</b> (p. 20) Municipal Solid Waste Generation and Management: A Case Study of Rangpur City Corporation (RCC) <i>Alifa Tajmin and Woakimul Islam Shakil</i> Bangladesh
11:40-11:50	<b>ID- 154</b> (p. 217) Identification of Indicators for Sanitation Risk Assessment in Urban Slums of Bangladesh: Case of Khulna City <i>S. M. Tafsirul Islam Rehan and Md. Ahsanul Kabir</i> Bangladesh	<b>ID- 164</b> (p. 98) Solid Waste Management for the Special Events: A Case Study on Eid Fair in Jatisangha Shishu Park of Khulna City, Bangladesh <i>Tusar Kanti Roy, Farhana Akhter, Shuvra Sikder, Md. Mohaiminul Islam and Abhinandan Dey</i> Bangladesh
11:50-12:00	<b>ID- 059</b> (p. 61) Solid Waste Management in Secondary Town of Bangladesh: A Case Study on Meherpur Municipality <i>Md. Sazzad Hossain and Muhammad Rashidul Hasan</i> Bangladesh	<b>ID- 160</b> (p. 46) Municipal Solid Waste Management in Sylhet City, Bangladesh <i>Md. Ashraful Islam, Md. Shameem Hossain, Md. Tanzilul Islam and Salma A. Iqbal</i> Bangladesh
12:00-12:10	<b>ID- 120</b> (p. 196) Lessons Learned from Faecal Sludge Treatment Plant Construction at Rajbandh in Khulna City <i>Fatima Naznin and Kh. Mahbub Hassan</i> Bangladesh	<b>ID- 159</b> (p. 22) Characterization and Treatment of Tannery Effluent of Tannery Industrial Estate, Dhaka <i>Anika Anindita Alamgir, Zinat Najnin and M. A. Jalil</i> Bangladesh

<b>12:10-12:20</b>	<p><b>ID- 093</b> (p. 98) Solid Waste Management for the Special Events: A Case Study on Eid Fair in Jatisangha Shishu Park of Khulna City, Bangladesh <i>Tusar Kanti Roy, Farhana Akhter, Shuvra Sikder, Md. Mohaiminul Islam and Abhinandan Dey</i> Bangladesh</p>	<p><b>ID- 147</b> (p. 29) Decentralized Wastewater System: A Case Study Francesco Garbo and Maria Cristina Lavagnolo Italy</p>
<b>12:20-12:30</b>	<p><b>ID- 101</b> (p. 93) A Comparative Analysis on Community Based Waste Management System <i>Taif Hossain Rocky, Md. Sayeed Ur Rahim Mahadi and Uttam Kumar Saha</i> Bangladesh</p>	<p><b>ID- 067</b> (p. 183) A Study on Resource Recovery Potential From Kitchen Waste in Bauniabandh Tin-Shed Colony <i>Taif Hossain Rocky, Md. Anjum Islam and Uttam Kumar Saha</i> Bangladesh</p>

### 14:00-15:40: Parallel Technical Sessions A5 & B5

(27 February 2017, MONDAY)

	<b>Session A5 (Room #01, CE Annex)</b>	<b>Session B5 (Room #207, CE Bldg.)</b>
	<p><b>Chair of the Session:</b> <b>Prof. Dr.-Ing. Eckhard Kraft</b> Bauhaus-Universität Weimar Germany</p>	<p><b>Chair of the Session:</b> <b>Dr. Md. Liakath Ali</b> Director, Programmes and Policy Advocacy, WaterAid Bangladesh</p>
<b>14:00-14:10</b>	<p><b>ID- 128</b> (p. 110) Present Practice of Hospital Waste Management in Rajshahi City <i>Md. Niamul Bari, Srabane Datta and Tanjila Tazrin</i> Bangladesh</p>	<p><b>ID- 083</b> (p. 18) Performance Study on Different Filter Media used for the Treatment of Wastewater <i>Aishika Roy and Dr. Muhammed Alamgir</i> Bangladesh</p>
<b>14:10-14:20</b>	<p><b>ID- 074</b> (p. 107) Medical Waste Management (MWM) as an Icon for Safe Town Development: A Study in Jeneidha Town of Bangladesh <i>M. S. Hossain, H. R. Nur and Ujjwal Mondol</i> Bangladesh</p>	<p><b>ID- 001</b> (p. 173) Recycling and Reusing Practice of Lead Acid Battery in Dhaka City <i>Sudipta Chakraborty and Md. Moniruzzaman</i> Bangladesh</p>
<b>14:20-14:30</b>	<p><b>ID- 143</b> (p. 114) Distribution of Mercury Releases and Estimation of Recoverable Mercury Amount from By-products in Primary Metal Production Facilities <i>Seung-Ki Back, A H M Mojammal, Jeong-Hun Kim, Young-Hee Kim, Kwang-Seol Seok and Yong-Chil Seo</i> South Korea</p>	<p><b>ID- 122</b> (p. 90) Scenario of Solid Waste Management Practice in Municipality Area of Jhenaidah Pourashava <i>Sourav Saha, Noman Al- Hafiz and Muhammed Alamgir</i> Bangladesh</p>

14:30-14:40	<p><b>ID- 119</b> (p. 116) Clinical and Offensive Waste Disposal Management Scenario in Faridpur Town <i>Ujjwal Mallik, Bari Q. H., Dipankar Chakraborty and Auntor Saha Bangladesh</i></p>	<p><b>ID- 053</b> (p. 130) Study on Composting Process Practiced at Waste Management Plant of KUET for Reuse of Biodegradable Waste <i>Mishon Kumar Sutradhar and Muhammed Alamgir Bangladesh</i></p>
14:40-14:50	<p><b>ID- 098</b> (p. 105) Chromium Removal from Tannery Wastewater by Chemical Means <i>Johura Khatoon and Md. Delwar Hossain Bangladesh</i></p>	<p><b>ID- 092</b> (p. 96) Management of Solid Wastes of Waterway Transport: A Case Study on Three Landing Ghats of Khulna City <i>Tusar Kanti Roy, Farha Hadia and Sumaiya Sadmeen Misty Bangladesh</i></p>
14:50-15:00	<p><b>ID- 034</b> (p. 112 ) Addressing the Solid and Hazardous Waste Issues through the City Sanitation Plan (CSP) Nawa Raj Khatiwada, Surya Man Shakya, Anish Ghimire, Sheela Sharma and Sheila Dangol <i>Bangladesh</i></p>	<p><b>ID- 005</b> (p. 154) Garments Waste Recycling in Dhaka: A Case Study of Mirpur Area <i>M.M Mahmud, Q. H. Bari, M M. Rahman and S. M. Moniruzzaman Bangladesh</i></p>
15:00-15:10	<p><b>ID- 118</b> (p. 154) E-Waste and Future Bangladesh: An Analysis of Impact of E-Waste on the Human Health and the Environment <i>Woakimul Islam Shakil and Alifa Tajmin Bangladesh</i></p>	<p><b>ID- 070</b> (p. 178) Resource Recovery And Income Generation From Kitchen Waste in Dhaka City Dhaka: A Case Study In Shah Ali Bagh, Dhaka <i>Taif Hossain Rocky, Md. Anjum Islam and Uttam Kumar Saha Bangladesh</i></p>
15:10-15:20	<p><b>ID- 140</b> (p. 26) Environmental Problems Caused by Solid Waste and Their Possible Remedies with Reference to Indian Cities <i>Balwant Kumar and Umesh Kumar Singh India</i></p>	<p><b>ID- 039</b> (p. 156) Recycled Rice Husk: Alternative Material as Filter Media for Wastewater Treatment <i>Md. Toriqul Islam, Md. Saiful Islam, Ismail Saifullah, Debbrata Datta and Asif Ahmed Bangladesh</i></p>
15:20-15:30	<p><b>ID- 144</b> (p. 56) Present Scenario of Solid Waste Management of Three City Corporations in Bangladesh <i>Md. Rafat-AI Shaharia, Sourav Saha and Muhammed Alamgir Bangladesh</i></p>	<p><b>ID-142</b> (p. 35) Solid waste management practices in India- an overview <i>Indrani Mukherjee and Umesh Kumar Singh India</i></p>

**16:00-17:00: Parallel Technical Sessions A6 & B6**

(27 February 2017, MONDAY)

**Session A6 (Room #01, CE Annex)**

**Session B6 (Room #207, CE Bldg.)**

	<b>Chair of the Session:</b> <b>Prof. Kh. Mahbub Hassan</b> Department of Civil Engineering, KUET Bangladesh	<b>Chair of the Session:</b> <b>Mr. Surya Man Shakya</b> Waste Management Expert Nepal
16:00-16:10	<b>ID- 048</b> (p. 73) Efficient Solid Waste Management System for Pabna City: A Case Study on Ward No. 3 & 4 <i>Mst. Hosneara, Mahbuba Khanam, Mehruna Tabassum, Nazia Sultana and Sharmin Aktar Shimu</i> Bangladesh	<b>ID- 021</b> (p. 77) Scenario of Municipal Solid Waste Management in Kushtia Municipality and Proposals for Improvement <i>Nafeez Tanzim and Kh. Mahbub Hassan</i> Bangladesh
16:10-16:20	<b>ID- 099</b> (p. 79) A Pilot Scale Study of a Rock Filter for Wastewater Treatment <i>Nawa Raj Khatiwada, Euiso Choi, Anish Ghimire and Sheila Dango</i> Nepal	<b>ID- 136</b> (p. 88) Current Circumstances of Municipal Solid Waste Management Practice Using GIS in KCC <i>Smita Golder and Muhammed Alamgir</i> Bangladesh
16:20-16:30	<b>ID- 050 (p. 190)</b> Characteristics Of Recycled Glass As Construction Materials <i>Md. Rezaul Karim and Ismail Saifullah</i> Bangladesh	<b>ID- 073</b> (p. 13) Scenario of Solid Waste Management (SWM) in Chapai Nawabganj Municipality of Bangladesh <i>M. S. Hossain, A. M. Mamrose and K. M. Hassan</i> Bangladesh
16:30-16:40	<b>ID -066 (p. 180)</b> Resource Recovery Potential From Kitchen Waste In A High Income Community of Dhaka <i>Taif Hossain Rocky, Md. Anjum Islam and Uttam Kumar Saha</i> Bangladesh	<b>ID- 126</b> (p. 189) Investigating the Spatial Distribution of Residential Solid Waste Collection Services in Khulna City Corporation Area <i>M. Mashrur Zaman and Md. Esraz-Ul-Zannat</i> Bangladesh
16:40-16:50	<b>ID -141 (p. 36)</b> Waste Management of <i>Eichhornia Crassipes</i> and Kitchen Waste by Anaerobic Co-Digestion for Energy Production <i>Indranil Bhui, Arijit Ghosh, Triratna Moktan, Shibani Chaudhury and Srinivasan Balachandran</i> India	<b>ID- 007</b> (p. 144) Activities of Alternate Informal Sector in Recycling Photocopying and Computer Printing Waste Papers <i>A. R. Raj, Q. H. Bari and S. M. T. Islam</i> Bangladesh