Listing of Papers Presented at Various World Water Day(s), Commemorated by

Pakistan Engineering Congress

Sr. No.	Title of Paper	Name of Author
	2005 – Water for Life:	
1.	Constructing New Dams for Pakistan's Survival	Engr. Dr. Izhar-ul-Haq,
2.	Implementation of Indus Waters Treaty-1960	Engr. Syed Jamaat Ali Shah
3.	Pakistan's Water Resources Development and Global Perspective	Engr. M. Mushtaq Ch., General Manger (P&D) Water, WAPDA, Dr. Allah Bakhsh Sufi
4.	Reducing the Impact of Unplanned Urbanization of a Riparian Eco-System: A case study on designing a Plan for Sustainable Utilization of Flood Plains on River Ravi	Dr. Amin U. Khan
5.	Ground Water use in Pakistan : Opportunities and Limitations	Dr. Muhammad Nawaz Bhutta
6.	Development of Sub-Surface Drainage Data Base System for Use in Waterlogging and salinity Management Issues	Dr. Aftab H. Azhar, M. M.Alam, M. Rafiq
	2006 – Water Scarcity:	
7	World Water Day, March 22, 2006 – Water Scarcity	Engr. Muhammad Mushtaq Chaudhry
8	Water as Instrument of Peace the Vision of Indus Waters Treaty-1960	Engr. Syed Jamaat Ali Shah
9	Water Resources Development in Pakistan	Engr. Dr. Izhar-ul-Haq, S. Tanveer Abbas
10	Risk Perception towards flooding and environment in low income urban communities	Dr. S. M. Saeed Shah, M. Kaleem Sarwar
11	Bringing drainage towards integrated water resource management in the Indus Basin	Dr. Muhammad Nawaz Bhutta
12	Introducing Modern Environment Friendly Technology for Water Management in Customary environment of Pakistan	Abdul Hakeem Khan, Sarfraz Munir, Dr. Hugh Turral
13	Assessing the Behaviour of Groundwater Recharge using Water table Fluctuation Method	Jehanzeb Masud, Asaf Sarwar
14	Hydro Energy and Water Vision in Pakistan	Abdul Qayyum

2007 – Coping with Water Scarcity:

15	Water Scarcity & Wapda Vision-2025	M. Mushtaq Chaudhry, Dr. Allah Bakhsh Sufi
16	Combating Water Scarcity	Dr. Izhar-ul-Haq, S. Tanveer Abbas
17	Role of Groundwater in Coping with Scarcity of Water	Dr. Muhammad Nawaz Bhutta
18	Coping with Water Scarcity & Indus Waters Treaty Vision	Engr. Usman-e-Ghani
19	Growing Scarcity of the Water Resource	Shafqat Masood
20	Waste Water Re-use for Crop Production: An Option for Sustainable Agriculture Under Water Scarce Environments	Sarfraz Munir, Abdul Hakeem Khan, Waqas Ahmad, Aamir Nazeer
21	Efficient Irrigation Techniques to Cope with Water Scarcity	Engr. Muhammad Yasin
22	Groundwater Sustainability to Cope with Water Scarcity	Jehanzeb Masud, M. Arshad

2008 – Sanitation:

23	Key Note Address on Access to Basic Sanitation –A Challenge for All	Jawed Ali Khan
24	Generation & disposal of Solid Waste at Model Town Central Park Lahore	Attia Dastgir, Zahid-ul-Haq, Dr. Allah Bakhsh Sufi
25	Drinking Water Quality: Removal of Heavy Metals from Contaminated Water	Muhammad Iqbal, Asma Saeed, Muhammad Saleem
26	Hospital Hazardous Waste Management	Ali Sher A. Baloch, Asma Iftikhar
27	Appropriate Technologies of Sewage Treatment For Urban Centers & Large Villages of Punjab	Engr. Shabbir Ahmad Qureshi
28	Adverse Effects of Poor Waste Water Management Practices On Ground Water Quality in Rawalpindi And Mitigation Strategies	Lt. Col Islam-ul-Haq TI (M) (Retd), W. A. Cheema
29	To Study the Performance of an Innovative, On Site Waste Water Treatment System	Dr. Zahiruddin Khan
30	How to Improve Medical Waste Management	Dr. Fayyaz Ahmad Ranjha
31	Monitoring of Microbial Quality of Drinking Water in Tench Area, District Rawalpindi, Pakistan	Shaukat Farooq, Dr. Imran Hashmi, Sara Qaiser, Sajida Rasheed, Asma Saeed

32	Solid Waste Management Practices in Lahore	Dr. Muhammad Tufail Siddiqui

2009 – Transboundary Waters:

33	Transboundary Waters – Perspective of Indus Water Treaty-1960	Engr. Usman-e-Ghani
34	Transboundary Waters and Sustainability of Irrigated Agriculture in Pakistan	Riaz Nazir Tarar
35	Indus Water Treaty-1960 – A Challenge for our Sustainability	Engr. Shafqat Masood
36	Transboundary Water Issues of Pakistan and some other Countries	Dr. Allah Bakhsh Sufi, Zahid Hussain Khan, Asghar Ali Hale Pota
37	Effect of Transboundary Water Agreements on Water and Food Security of Downstream Riparian Communities – A Case Study of Indus Waters Treaty	Sarfraz Munir, Waqas Ahmad, Asghar Hussain
38	Protection of Water Quality and its Sustainable Use in Pakistan	Dr. Muhammad Nawaz Bhutta

2010 – Communicating Water Quality Challenges and Opportunities

39	Prevalence of ESCHERICHIA COLI within Public Drinking Water supply in 1-8 Sector Islamabad	Sajida Rasheed, Dr. Imran Hashmi, Sara Qaiser
40	Safe Drinking Water and Sanitation in Punjab	Salman Yusuf
41	Chemical Quality Assessment of Major Brands of Bottled Water in Lahore	Asma Saeed, Shabana Kauser, Imran Kalim, Muhammad Iqbal
42	Shallow Groundwater Quality of Un-Commanded Areas of Punjab Doabs	Abdul Hameed, Abdul Majeed
43	Managing Water Scarcity and Quality Deterioration in Pakistan Challenges and Options	Dr. Allah Bakhsh Sufi, Talib Hussan, Khalid Javed
44	Sustaining Irrigated Agriculture in the 21st Century: Options for Pakistan	Asad Sarwar Qureshi, Khalid Mohtadullah
45	Rainwater Harvesting Potentials for Rawalpindi and Islamabad	Muhammad Ali, Zahir-ud-din Khan
46	Application of Fiscal Measures for Securing Access to Safe Drinking Water – An Analysis of Community Perceptions in Abbottabad District.	Saadullah Ayaz, Mahmood Akhtar Cheema
47	Groundwater Management and Recharge Potential as an Alternate to Mega Surface Storages	Muhammad Bashrat, Danial Hashmi

48	Role of Brackish Water in the Reclamation of salt Affected Soils	Munawar Ali, Muhammad Rafiq

2011 – Water for Urban Cities Challenges:

49	Drinking Water Quality Challenges in Pakistan	Z. A. Soomro, Dr. M. I. A. Khokhar, W. Hussain, M. Hussain
50	Assessing Microbiological Safety of Drinking Water: A Case Study of Islamabad, Pakistan	Dr. Imran Hashmi, Sara Qaisar, Syeda Asma, M. Talal Ali Khan, Sidra Abbas
51	Water for Cities Challenges and Solutions	Dr. S. E. Benjamin
52	Algae Based Sewage Treatment and its Reuse for Irrigation and Landscaping	Madiha Zakira, Dr. AbdullahYasar, Saba Sadiq
53	Challenges and Opportunities in Urban Water Supply in Punjab Province	Salman Yusuf
54	Community Participation in Development, Operation and Maintenance of Water Supply and Sewerage Services	Dr. Javed Iqbal, Abdul Qadeer Khan
55	Transboundary Pollution Problems and Water Vulnerability across International Borders	Tayyaba Alam, Dr. Abdullah Yasar
56	Sustainable Managements of Textile Waste Water of Pakistan	Dr. Muhammad Khalid Iqbal, Sameer Ahmed, Dr. Shazad Alam, Dr. Munir Ahmed
57	Water Supply Problems in Rawalpindi City	Ch. Naseer Ahmad, Azizullah Khan, Ghalib Hasnain, Shahid Durez
58	Groundwater Depletion in the Canal Commands of Bari Doab	Muhammad Saeed, Muhammad Nasim Khan
59	Groundwater Extraction and Waste Water Disposal Regulation – Is Lahore Aquifer at Stake with as usual Approach?	Muhammad Basharat, Sultan Ahmad Rizvi

2012 – Water and Food Security:

60	Sustaining Irrigated Agriculture for Food Security A Perspective from Pakistan	Asad Sarwar Qureshi, Aamira Fatima

61	Managing Demand Side of Water Scarcity Equation – Prospects and Potential of Drip Irrigation.	Chaudhry Mohammad Ashraff, Malik Muhammad Akram, Dr. Maqsood Ahmed, Hafiz Qaisar Yasin
62	Managing Water Resources For Food Security in Pakistan	Irshad Ahmad, Dr. Allah Bakhsh Sufi, Talib Hussain
63	Discovering Linkages between Water and Food Security Dimensions	Ali Hasnain Sayed, Ms. Dure Shahwar
64	Sustainable Use of Groundwater in Lower Bari Doab Canal Command	Dr. Muhammad Nawaz Bhutta
65	Water Resources Potential and Management Strategies in Cholistan Desert – Pakistan	Zamir A Soomro, Asmatullah Khuwaja, M. Tahir Saleem
66	Quality of Drainage Water and its Irrigation Prospects in Sindh Province of Pakistan	Khalid Mahmood Subhani, Zafar Iqbal Raza, Dr. Muhammad Mehboob Alam
67	International Experiences in Groundwater Management and their Viability in Pakistan for Resource Sustainability	Muhammad Basharat, Syed Javed Sultan
68	Ground Water Table fluctuations in Irrigated Areas of Rechna Doab – Punjab	Muhammad Saeed, Syed Javed Sultan, Dr. M. Mehboob Alam

2013 – Water & Cooperation

69	Impact of Climate Change on Pakistan Rivers: A Case for Cooperative Research	Engr. Riaz Nazir Tarar
70	Environmental Degradation around River Ravi - Caused by the division of Indus Basin Rivers	Engr. Dr. Izhar-ul-Haq, Abdul Khaliq Khan
71	Water Cooperation: Concepts, Benefits and Applications	Dr. Asad Sarwar Qureshi
72	Water Cooperation – Resilience to Climate Change	Engr. Ahmad Kamal
73	Governance of Hydropower in Transboundary River Basins – Role of International Organizations in Facilitating Bilateral Treaties in Developing Hydropower	Sardar Muhammad Tariq
74	Quality of Potable Water in Circulation within Different Cities of Pakistan	Dr. S. E. Benjamin, Ms. Fauzia Sardar
75	Changing Trends in Agricultural Economy of Pakistan	Talib Hussain, Khalid Mehmood Subhani, Khalid Javed

76	Remote Sensing of Snow for Land Surface Modelling	Jahanzeb Maik, Zoltan Vekerdy, Rogier van der Veids, Zhongbo Su
77	Dry Land Forestry in Scrub Areas through Water Harvesting Techniques	Major (R) Shahnawaz Badar, Muhammad Afzal, Amjad Ali Ch.
78	Groundwater Recharge Potential in Irrigated Areas of Indus Basin – Pakistan	Muhammad Saeed, Syed Javed Sultan, Dilbar Hussain
79	Use of Hairdin Drain Effluent for Growing of Salt Tolerant Crops on Saline Sodic and Gypsiferous Soil – Strategies to Reduce Risk	Khalid Mahmood Subhani, Talib Hussain, Munawar Ali
80	Surface Water Management in Pakistan	Dr. Qazi Tallat, Mahmood Siddiqui
81	Water Management issues in Existing Farming Practices	Zamir Ahmed Soomro, Khurram Ejaz, Muhammad Dilshad
82	Rational Surface Water Management: A Pre-requisite for Groundwater Management in Pakistan	Dr. Muhammad Basharat, Talib Hussain, Syed Javed Sultan
83	Water Cooperation in LBDC Irrigation System: Command Scale Conjuntive Water Management in Response to Spatial Climate Variability	Dr. Muhammad Basharat, Dr. Ata-ur-Rehman Tariq
84	Karez Rehabilitation: A Tool for Sustainable Livelihood and Climate Change Adaption in Balochistan	Mehmood Akhtar Cheema, Irfan Ali Bakhtiari

2014 – Water and Energy:

85	Water Energy Nexus	Engr. Dr. Izharul Haq
86	Water and Energy : Synergic Multi-Purpose Development of Surface Water Resources	Engr. Riaz Nazir Tarar
87	Water Resources Development in Pakistan – A Revisit of Past Studies	Engr. Abdul Khaliq Khan
88	Minimum flows for Hydropower and Dam Projects	Engr. Kamran Yousaf Kazi, Engr. Imran-ul-Haq, Ms. Fatima Hashmi
89	Water Footprints of Bottled Water in Pakistan	Dr. Asad Sarwar Qureshi, Atif Nawab
90	Last Opportunity to Protect Groundwater Deterioration in Lower Bari doab Canal	Dr. Muhammad Nawaz Bhutta
91	Nuclear Desalination Demonstration Plant (NDDP) at Kanupp	Engr. Ahsan Ullah Khan

92	Impact of Global Warming on Flows in the River Indus and the River Jhelum in Pakistan	Dr. Ishtiaq Hassan, Abdul Razzaq Ghumman, Hashim Nisar Hashmi
93	Water and Energy Efficiency Potential in the Textile Sector with Best Water Management Practices (BWMPS) in Pakistan	Sohail Ali Naqvi, Ali Hasnain Syed, Ms. Saba Dar
94	Studies on Snowmelt Metamorphosis Vis-à-vis Sediment Loading in Upper Catchment.	Engr. Usman-e-Ghani
95	Water and Energy	Engr. Muhammad Jabbar
96	An overview of Groundwater Recharge Potential in Irrigated Areas of Punjab and Khyber Pakhtunkhwa	Engr. Muhammad Saeed, Engr. Syed Javed Sultan, Engr. Asim Saeed, Malik Muhammad Mumtaz
97	Irrigation-Drainage and Water Logging-Salinity Issues in Lower Indus and their Possible Solutions	Dr. Muhammad Basharat, Dilbar Hassan, Engr. Akbar Ali Bajkani, Syed Javed Sultan
98	Solar Energy in Pakistan – Potential, Current Status and Future Prospects	Irfan Yousaf, Syed Aqeel Hussain Jafri

2015 – Water and Sustainable Development in Pakistan

99	Water & Sustainable Development in Pakistan	Engr. Dr. Izharul Haq, Asim Rauf Khan
100	Water and Sustainable Development Contextural Global and National Overview	Engr. Riaz Nazir Tarar
101	Sustainable Development of Water Resources: The Deepening Crisis in Pakistan	Asrar-ul-Haq, Afaf Ayesha
102	Surface Water Resources and their Sustainable Development in Pakistan	Engr. Barkat Ali Luna Engr. Muhammad Jabbar
103	Water Crisis and Future Options in Pakistan	Dr. Muhammad Nawaz Bhutta
104	Sustainability of Water for Pakistan	Abdul Khaliq Khan, Umair Mannan, Shahzad Ghafoor
105	Groundwater Environment and Evaluation of Long-Term sustainability of the Aquifer Under Lahore	Dr. Muhammad Basharat
106	Application of Yield Models in Reservoir Optimization of Large Dams	Engr. Usman-e-Ghani
107	High Efficiency Irrigation Systems "A Transformation in the Conventional Irrigation Practices in the Punjab"	Chaudhry Muhammad Ashraff, Dr. Muhammad Asif, Hafiz Qaisar Yasin

108	Sustainable Efficient Irrigation Method for Rice and Wheat Crops	Zamir Ahmed Soomro, Muhammad Dilshad, Khurram Ejaz
109	Evaluation of Different Techniques for the Safe Usage of Manchar Drainage Effluent for Growing of Crops	Engr. Muhammad Saeed, Engr. Munawar Ahmed, Engr. Asim Saeed Malik, Muhammad Qasim Channa, Munawar Ali, Khalid Mahmood Subhani
110	Integrated Water Resources Management-Case Study of Alborz Project, Iran	Dr. Mansoor A. Hashmi
111	Seepage and Economics of Canal Lining in Lbdc-Worksheet Model Application	Engr. Ijaz Javed, Engr. Asim Saeed Malik, Engr. Hafeez-ur-Rehman
112	Significance of Water Conservation for Sustainability of Water Resources of Pakistan	Engr. Ishteqaq Ahmad Kokab, Engr. Adnan Yousaf, Engr. Husnain Afzal
113	Trends in Levels of Disinfections By-Products in Drinking Waters of Twin Cities	Sidra Abbas, Imran Hashmi, Sajida Rashid, Romana Khan
114	Recharging of Depleting Groundwater Aquifer in Punjab, Pakistan – A Case Study	Javed Munir, M. Mohsin Munir, Syed Abbas Ali
115	Sustainable Conjunctive Use of Groundwater for Additional Irrigation	Dr. Naveed Alam

2016 – Water and Jobs

116	Application of Computational Flow Dynamics (CFD) Analysis for Surge Inception and Propagation for Low Head Hydropower Project	M. Mohsin Munir Javed Munir
117	Temporal Variation in Ablation Rate of Pasu Glacier in the Karakoram Range, Pakistan	Asim Rauf Khan, Muhammad Ashraf
118	Assessment of Water Quality and Efficiency of Public Drinking Water Filtration Plants in Lahore	Rana Farooq, Dr. Abdullah Yasar Arrfa Sikandar and Zara Anjum
119	Industrial Waste Water Quality of Gujranwala Area	Engr. Dr. Muhammad Saeed Engr. Syed Javed Sultan Engr. Hafeez-ur-Rehman Engr. Khalid Bashir Butt, Engr. Muhammad Khuram
120	Ground Water Recharge and National Context	Engr. Riaz Nazir Tarar

121	Water Resources Development Creates Job Opportunities	Dr. Engr. Izhar-ul-Haq
122	Groundwater Management Through Artificial Recharge-A potential for Jobs	Ghulam Zakir Hassan Ghulam Shabir and Faiz Raza Hassan
123	Rainwater Harvesting Potential in Pothoohar, Punjab	Dr. Muhammad Nawaz Bhutta, Dr. Saleem Sarwar
124	Safe Drinking Water; an Ongoing Challenge in Lahore	Nouraiz Nazar
125	Meeting Challenges of Floods & Droughts	Abdul Khaliq Khan and Shahzad Ghafoor
126	Turning Water Technology into Business	Dr. Naveed Alam
127	The Eastern Divide (An Economic Rotulus on Ravi, Sutlej and Beas)	Engr. Usman-e-Ghani
128	Effect of Over pumping on Shallow Groundwater Aquifer – A Case Study	Zamir Ahmed Soomro and Usman Iqbal

2017 – Waste Water

129	Water Availability in Pakistan and Wastewater	Dr. Izhar-ul-Haq, Mr. A. Dastgir
130	Water Resources Development and Management in Pothohar	Dr. Muhammad Nawaz Bhutta Dr. Saleem Sarwar
131	Seasonal Variations in the Efficiency of Oxidation and Stabilization Ponds for the Treatment of Sewage in Faisalabad City	Dr. Abdullah Yasar, Ms. Noreen Ashraf, Dr. A. B. Tabinda, M. Naveed Anwar, Mr. Mujtaba Baqir, Mr. Ahmad Iqbal, Mr. Anam Waheed
132	Reuse of wastewater in Agriculture recovered from Constructed Wetlands	Mr. Khushbakht Andleeb, Mr. Imran Hashmi, Mr. Hamza Farooq Gabriel Mr. Tariq Mehmood
133	The Indus Drainage (Issues and Opportunities)	Engr. Usman-e-Ghani
134	Designing and Developing Wetland Technology to Treat Wastewater for Irrigation	Syed Hamid Hussain Shah, Mr. Allah Bakhsh, Mr. Muhammad Adnan Shahid, Mr. Saeed Ur Rehman Mr. Junaid Nawaz Chauhdary
135	Groundwater Pollution with Wastewater: Generated by Industries and Mega Cities of the Country	Engr. Dr. Muhammad Saeed, Engr. Ijaz Javed, Engr. Hafeer-ur-Rehman Mr. Dilbar Hassan

136	Treatment of Wastewater using Solar Bioreactor	Dr. Muhammad Anwar Baig, Mr. Saad Khan, Ms. Mehwish Haq Nawaz
137	Improved Resource Efficiency through Increased Compliance to Environmental Standards-An Initiative towards Sustainability in the Industrial Sector of Pakistan	Ms. Zonia Awan, Mr. Noraiz Nazar Mr. Sohail Ali Naqvi
138	Presence of Heavy Metals in Solid Waste Leachate and its Removal using Agricultural Waste	Mr. Nadeem Hussain, Mr. Muhammad Anwar Baig, Mr. Azhar Iqbal Mr. Shahid Rehman
139	Wastewater-A Threat for Groundwater	Mr. Ghulam Zakir Hassan, Mr. Ghulam Shabir, Ms. Faiz Raza Hassan Mr. Saleem Akhtar
140	Wastewater Management at Wapda Hydropower Projects	Mr. Attia Dastgir, Dr. Muhammad Fayyaz Ahmad, Mr. Sarfraz Naseer
141	Treatment of Waste Water in Lahore	Mr. Abdul Qadeer Khan

2018 – Nature for Water

142	Water Needs of Capital Cities in Pakistan	Engr. Abdul Khaliq Khan
143	Groundwater use and Management Experience in Punjab	Muhammad Nawaz Bhutta
144	Groundwater Prospects, Challenges and Management Strategies in Indus Basin	Habib ur Rehman, Ghulam Nabi, Muhammad Waseem, Muhammad Ijaz
145	Hydraulic Performance Evaluation of Long Inverted Siphons for Irrigation Conveyance System – A Case Study	Engr. M. Mohsin Munir, Engr. Irfan Mehmood, Engr. Kamran Ahmad, Engr. Javed munir
146	A Natural Resource of Sustainable Development for Pakistan's Economy	M. Munir Ch., M.S Qureshi, Dr. A. B. Sufi, S. Laraib Zaidi
147	Impacts of Climate Change on Water Resources of Pakistan	Qazi Talat Mahmood Siddiqui
148	A Review on: Water Saving Techniques for Domestic, Agricultural and Industrial Water Usage	Engr. Dr. Muhammad Saeed, Engr. Rahmat Ullah Sheikh, Engr. Muhammad Shoaib

149	Flood Water Storage in Aquifer through Natural Recharge – A Case study of Rechana Doab Punjab Pakistan	Ghulam Zakir Hassan. Ghulam Shabbir, Faiz Raza Hassan, Saleem Akhtar
150	Monitoring Microbial Regrowth and Inactivation Potential in a LAB Scale Water Distribution Network	Amrah Qureshi, Imran Hashmi, Romana Khan
151	Are We Drinking Quality and Safe Water in Pakistan	Dr. M. Anwar Baig, Adnan Anwar Baig
152	Nature – Water Nexus: Managing Current Water Challenges	Engr. Mumtaz Hussain
153	Microbial Fuel Cell for the Treatment of Industrial Waste Water	Sameen Salman, Abdullah Yasir, Amtul Bari Tabinda, Rabia Shaukat, Naveed Anwar, Ahmad Iqbal

2019 – Leaving No One Behind

154	Study Quantum of Transboundary Groundwater Flow from India to Pakistan	Engr. Dr. Muhammad Basharat, Engr. Muhammad Jawad, Engr. Dr. Muhammad Saeed, Engr. Muhammad Shoaib
155	A Bi-level Multiobjective Program for Optimal Allocation of Water Resources in the Command Area of Taunsa Barrage	Muddasar Masood, Ijaz Ahmad, Noor Muhammad Khan
156	Natural Based Solutions to Water Challeges for Pakistan	M. Munir Ch., M. S Qureshi, Dr. A. B Sufi S. Laraib Zaidi
157	Water Saving Potential in Rice Crop using Bed Plantation Technique	Zamir Ahmed Soomro, Zia-ul-Haq, Khurram Ejaz
158	Sensitivity Analysis of Allievi Chart Parameters for Water Hammer- A Case Study	Engr. Muhammad Mohsin Munir, Engr. Kamran Ahmad
159	Nutrient Removal Efficiency of Constructed Wetland for Wastewater Treatment and Reuse	Kanza Naseer, Imran Hashmi
160	Leachate Potential to Contaminate the Groundwater in the Vicinity of Landfill Sites	Yusra Maqbool, Nimra Fayyaz, Abdullah Yasar, Amtul Bari Tabinda Naveed Anwar

161	Need of Proper National-Action-Plan Under Appropriate Legislation / Regulations / Technologies / Funding to Achieve Pakistan's Sustainable Development Goals Specifically Goal 6 and its Target 6.3	*Engr. Abdul Qayyum*
162	Water Quality Assessment of Rawal Dam with Special Consideration to Chattar, Murree Stream	*Hamza Bin Riaz, Imran Hashmi*
163	Water Contamination as a Main Source of Water Scarcity in Pakistan	*M. Iftikhar, B. K. Bakht, Dr. Eng. A. Yasar, Dr. A.B Tabinda., M. N. Anwar*