

FOREWORD

By

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On

WORLD WATER DAY APRIL-2011

Revealeth Almighty Allah more than 1431 years ago on Prophet Muhammad (PBHU) through the Holy Quran that He created everything on the Earth from water. According to Wikipedia it was around 13.7 Billion years when this Big-Bang took place and the humanity remained oblivious of this secret revealing till Almighty's Will 1431 years ago. Verily there is no gainsaying the veracity that existence of all sorts of biological life is manifest where there is water. Elsewhere there is no life and no hustling bustling or throbbing and humming.

Even after such a benevolent revealing by the Almighty and Hadith of the Holy Prophet PBUH that cautioned usage of water only frugally and not extravagantly which action would be accountable, the humanity did not take heed till precarious water shortage hit countries like Ethiopia.

It then dawned on the Think Tanks that quantity of precious commodity of water was not limitless and unless its surface and subsurface resources were tapped and conserved to meet with the ever increasing demands of astronomically burgeoning population, its very extermination will loom large. Extermination would not be that simple way as a precursor, it would in its wake bring rather war in its wake. And God forbid if occupied Kashmir is not freed from India it May bring a destructive war between the two countries any time. For India has already demonstrated by withholding Pakistan's water when needed for sowing crops and quite conversely destroying the standing crops ready for harvest through opening Flood gates of unilaterally built Dams against universe acronyms.

It was due to such premonitions that in 1992 the community of Nations during the "United Nations Conference on Environment and Development (UNCED)" in Rio de Janerio took the initiative for observance of World Water Day starting on 22nd March of every year as of 1993. Further, UNO during its 58th Session declared the period from 2005 – 2015 as the international decade for Action "Water for

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Life". Starting on World Water Day – 22nd March 2005 it marked the start of it. The water for life decade 2005 – 2015 would boost the chances of achieving international water goals including those in UN millennium declaration albeit according to Think Tanks. The aspects of available water Resources, their conservation and usage are manifold. Every nation is engaged in addressing to the issue in the perspective of its respective requirements. In the context of Pakistan every year the World Water Day is being observed with Seminar / Symposia since 2005 where technical papers on various aspects of the issue are presented and discussed to enlighten and educate the engineers, scientists and the public at large.

Since 2005 every year in March up to 2011 Seven Water Days have been convened by Pakistan Engineering Congress, where the topics mooted out as mentioned against year with No. of Technical Papers have been presented and discussed as under:-

Year	Name of Topic	No. of Technical Papers presented
2005 World Water Day	Water for Life	Six
2006 World Water Day	Water and Culture	Eight
2007 World Water Day	Scarcity of Water	Eight
2008 World Water Day	Sanitation	Nine
2009 World Water Day	Transboundary Waters, Shared Water Shared Opportunities	Six
2010 World Water Day	Communicating Water Quality Challenges and Opportunities	Ten
2011 World Water Day	Water for Cities – Urban Challenges	Eleven

There can be many more technical issues relating to tapping of water for conservation both in the surface and sub-surface terrains to be used in grave shortage and recycling of waste water for reuse in crop production after desalination which can be thoroughly dwelt upon for mitigation of impending disasters. Engineers and scientists can do a commendable service to the nation and humanity/ biological life protection at large.

Paper published in this volume is open for written discussion, comments and remarks. Engineers and scientists are invited to participate in this activity which will be tantamount to valuable contributions by them for the benefits of the present generation and posterity.

To meet with the increasing demand of the engineering community and scientists, this volume as others is being published in a befitting and decently bound booklet for distribution between them and the archives of renowned national libraries.