



WORKING TOWARDS A WATER SECURE FUTURE

Hisaar Foundation 2016 – 2017

TABLE OF CONTENTS

Note from the Chairperson	02
Introduction	04
Governance	08
Think Tank on the Rational use of Water	13
Recommendations for Pakistan's National Water Policy Framework	16
Universities for Water Network	21
Creating Partnerships	23
Developing Solutions	26
Emergency Support	34
Ramazan Appeal	36
Advocacy & National Engagements	37
International Engagements	42
Third Karachi International Water Conference: The Future of Water	44
Donors and Partners for 2016 & 2017	47
Acknowledgements	48



NOTE FROM CHAIR OF HISAAR FOUNDATION

The Hisaar Foundation journey of success continues. Two years hence and we can proudly look back and clearly see the footprints of accomplishments trailing us. These two years have been full of excitement and growth for the foundation and from the look of what is to follow, we will continue in the same vein for the next few years. This was all made possible due to the guidance and support of our Board of Governors and fellow travellers who generously gave of themselves either through their association with the HF Think Tank, through Universities for Water Network or by their donations.

It will be apt to recount some of the recent past achievements as it provides us all with a sense of fulfillment and a forecast for what the future beholds for us.

Certainly, the establishment of Hisaar Foundation's Think Tank on the Rational Use of Water was a major milestone in our journey. In the last two years, we have debated, argued over, built consensus and produced the full framework for a national water policy – dubbed the 'citizens' water policy' by various stakeholders. This was successfully launched with a series of events in Karachi, Hyderabad, Lahore, Islamabad and Peshawar. This depth of dissemination resulted in greater awareness and alertness in the government circles for a need for not only a national water policy but for provincial water policies. We are pleased to report that at least three provincial governments; Punjab, KP and Sindh have galvanized themselves in preparing and announcing such a policy in the near future. HF Think Tank can rightfully take some credit for this urgency and cognizance about water issues and policy.

The Universities for Water Network (UWN), a brainchild of collaboration between NED University and Hisaar Foundation is going from strength to strength as its membership expands. The benefits of collaboration on academics and research on water is beginning to take seed which will not only provide the intellectual depth we require but also offer the students in Pakistan an option to pursue a career in water studies and management.

Our programmes and projects gained momentum in the last 2 years with increased presence at the grassroots level. Karachi and Thar continue to be our main focus areas with more and more small infrastructure and drinking water supply facilities and systems related projects being implemented. During this time our projects became more innovative and cost efficient with the advent of solar technology and greater use of green solutions.

Hisaar Foundation initiated the series of bi-annual international water conferences in 2013 and is now holding its Third Karachi International Water Conference. We aspire that this grows in the form of major international water conferences like the ones held annually in Stockholm and Singapore. While we are not quite there, we hope to have germinated an idea whose time has come and soon this will become a major event in the water calendar in this region.

The achievements of Hisaar Foundation work would not have been possible without the active and ongoing backing of some of our diehard supporters. This includes the Old Associates of Kinnaird Society (OAKS), Engro Foundation and United Bank Limited. We have new partners and sponsors, The Asia Foundation, Akbar

NOTE FROM CHAIR OF HISAAR FOUNDATION

Associates Group, Hope Uplift Foundation and Golden Harvest. But above all it is the individual and small institutional donors that have been most outstanding and it is their commitment that keeps Hisaar a unique 'citizen's organization' fired by the power of volunteerism.

Voluntary giving, whether it be money, time, assets or effort is the hallmark of Hisaar Foundation, whether it is the time of our very committed board members, the expertise so freely shared by the members of the Think Tank, the cash and in-kind support from a host of institutions, or the time and efforts of the universities within the UWN, where the meetings are rotated among universities. It is hard to believe that this network is run without major institutional donor funding, and that instead an ethos of coming forward to offer facilities and share costs prevails.

And we remain true to our three overarching values – creating partnerships among stakeholders, developing solutions, and emergency support. We continue to test and deliver water solutions in Thar, in schools and in public spaces. We provide support during calamities and emergencies anywhere in Pakistan. We update guidelines for conservation of water, engage with and educate media, build and support the voices of women, youth and marginalized communities. All our outputs are available to the public, to government and to institutions across the board.

We have contributed with passion and relentless effort to build intellectual capital, consensus, academic excellence and practical applications for the future of water in Pakistan. We are now ready to engage with partners to go to

scale – government, corporate sector, business and trade, academia and non-profit sector.

Let me finish on perhaps the most exciting development in the history of its brief existence. The pioneering streak of Hisaar Foundation team members visualized that one day this small beginning will result in the establishment of a water institute. This dream of Hisaar Foundation and its team is now about to become a reality. We are pleased to announce that in collaboration with NED University and Panjwani Charitable Foundation, a water institute to be called Panjwani-Hisaar Water Institute will be built on a piece of land generously offered by NED University. This will be both a multi-disciplinary and inter-disciplinary institute, perhaps first of its kind in this region. Amen

ZOHAIR ASHIR

Chairperson



INTRODUCTION

Over the last fifteen years, Hisaar Foundation with its work on water, food and livelihood security has emerged as a thought leader and innovator in the water sector of Pakistan. Hisaar Foundation has established itself as a premier organization on water with its strategic initiatives such as the Think Tank on the Rational Use of Water, the Universities for Water Network and the Karachi International Water Conference which is held every two years. The Think Tank on the Rational Use of Water works on policy and strategy, the Universities for Water Network links research and practice and the Karachi International Water Conference provides a unique and neutral platform for water stakeholders from all sectors, both national and international to come together to discuss, deliberate and debate on water issues. Hisaar Foundation also continues to enhance and strengthen its programmes that focus on building partnerships, providing emergency support when needed and developing and providing low-cost solutions with relevance to Integrated Water Resources Management and the water-food-livelihood nexus.

Hisaar Foundation was established as a non-profit entity and a section 42 company in January 2003 and completes 15 years at the end of this year. Hisaar Foundation is led by a visionary and dedicated Board of Governors that hail from many disciplines and diverse professional backgrounds who steer the Foundation's strategic initiatives and anchor its project and programmes on the ground.

The Hisaar Foundation Think Tank on Rational Use of Water, commonly referred to as the

"HF Think Tank" was established in 2014 as an outcome of one of the declarations from our 2013 International Water Conference. The Think Tank is a multi-stakeholder platform which has worked diligently in producing thought leadership in key issues of water. As part of its role it has held wide ranges of consultations with the key stakeholders as part of its consultative and advocacy function in many parts of Pakistan.

Its signature achievement to date is the publication of "Recommendations for Pakistan's National Water Policy Framework" in 2016, which is now recognized as the first "Citizens' Water Policy". This was launched in October



of 2016 and as part of its dissemination campaign, the Think Tank has held launch sessions of this report in Karachi, Hyderabad, Lahore, Islamabad and Peshawar. As a result of these consultations, governments of Punjab, KP and Sindh have started the process of drafting a provincial water policy.

The Universities for Water Network (UWN) currently comprises of nine member universities across Pakistan. The UWN has developed a compendium of all water related universities that offer degrees, departments or disciplines related to water, and a database of water professionals and academics of Pakistan as well as a database of research institutes that work on water in Pakistan. Hisaar Foundation's strategic initiatives (Think Tank and UWN) consolidate the intellectual underpinnings for dealing with Pakistan's water challenges now and in the future.

Another flagship initiative of Hisaar Foundation, is the bi-annual Karachi International Water Conferences that bring together stakeholders from across the world and across the water sector, from government and elected

INTRODUCTION



representatives to business and corporate sectors, academia, media, civil society, NGOs and INGOs, women, citizens, water managers and professionals, representatives of water institutions and youth. To date, Hisaar Foundation has hosted two international water conferences “Water Cooperation in Action – From the Global to the Grassroots” in December 2013, “Securing Sustainable Water for All – Innovation, Integration and Inclusion” in November 2015 and gearing up for the Third Karachi International Water Conference on “The Future of Water ” in November 2017.

Hisaar Foundation is also engaged in work at the grassroots level through its three programmatic streams of creating partnerships for change; developing solutions; and emergency support. Over the past 15 years Hisaar Foundation pioneered novel concepts of Area Water Partnerships, Women and Water Networks, Cost Synergy and Mutual Accountability. It has also demonstrated many viable solutions on the ground: Project Aab focused on rehabilitation of flood affected communities through the Total Water Solution model and installation of water systems all across Pakistan. Project Aab o Daana focused on domestic water and training for food produce in small urban spaces and rural areas. Project Aab e Thar focuses on both water and food security in desert areas which includes rainwater harvesting storage ponds, new and rehabilitated deep dug wells, hand pumps and boreholes. The Adopt a Village program develops holistic and comprehensive disaster mitigation capabilities and builds resilience through provision of water solutions, kitchen gardening trainings, livestock distribution, fodder tree plantations, ber grafting and solar household solutions.

Hisaar Foundation has extensive linkages with international partners such as Global Water Partnership, Stockholm International Water Institute, International Network for Capacity Development in Sustainable Water Resources Management, Budapest Water Summit and South Asian Consortium for Interdisciplinary Water Resources Studies (SaciWATeRS), as well as banks, corporate entities, civil society organizations and grassroots NGOs in Pakistan.

VISION AND MISSION

VISION

To balance environment with development through innovation

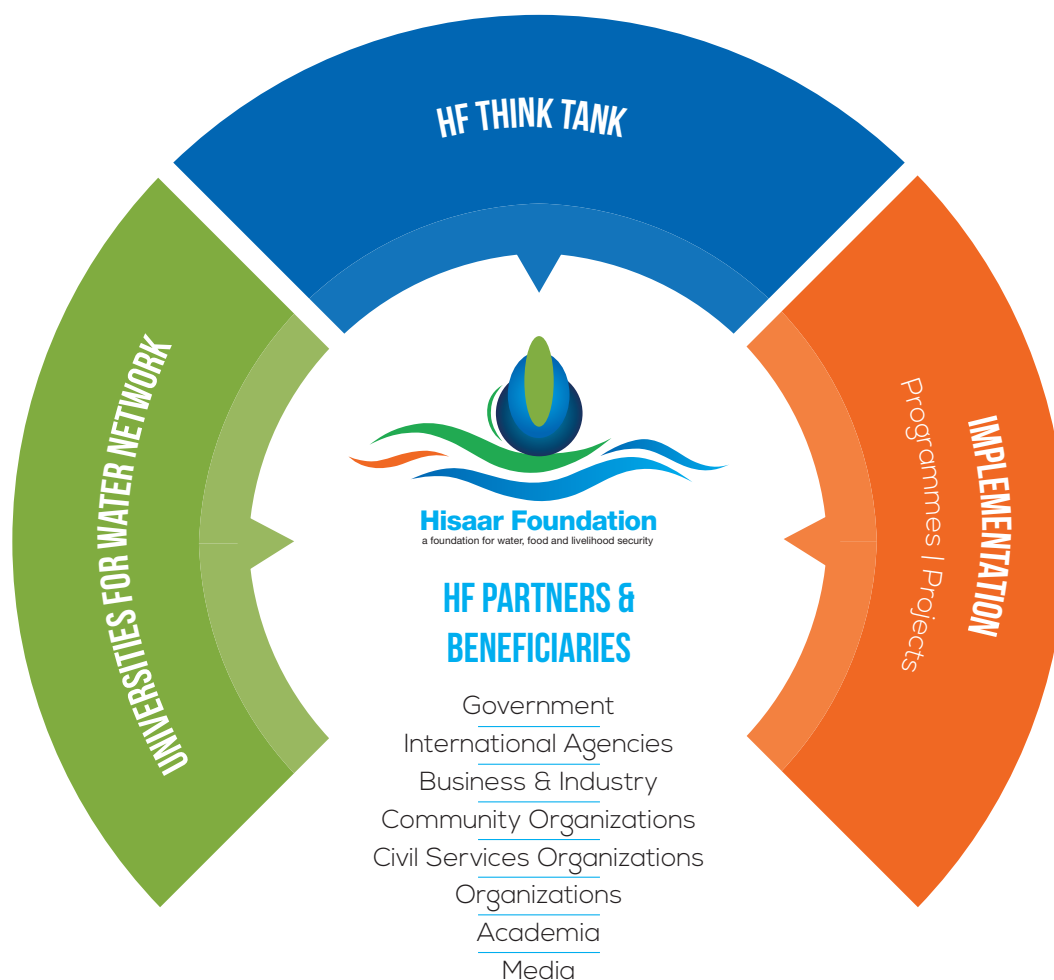
MISSION

To promote appropriate policies and creative, low-cost solutions for water resources development and conservation in Pakistan, and for addressing the broader climate change issues.

GOALS

1. Act as a think tank on water and environmental issues
2. Strive for behavioral change relating to water, food and environment
3. Connect government with civil society (private sector, citizens, civil society organizations, academia and media)
4. Test, pilot and disseminate solutions
5. Implement programmes through partner organizations





PROFILE OF CURRENT BOARD OF GOVERNORS (2015 – 2018)



ZOHAIR ASHIR

Chairperson

Mr. Zohair Ashir is a Management Consultant and Professional Hospital Administrator. He is a major shareholder in 3 professional firms. He is a Senior Partner with the firm Grant Thornton Consulting and heads its People& Culture practice. He is also the Chief Executive and Director of AASA Consulting and Director, a Social Policy firm and a Director in Access Consulting which is Technology and Innovation company. He has over 30 years of professional experience in the field of management with specialization in Strategic Management, and Institutional Development. He has been associated with organizations in the United States, Middle East and Pakistan. He has served as Adviser or a Project Leader with the World Bank, USAID, ADB, JICA, SBP, Government of Pakistan and many other organizations. He has served in senior management capacity with Aga Khan University Hospital, Baptist Memorial Hospital and Aetna Life & Casualty Insurance Company in the USA. Mr. Ashir has been associated with Hisaar Foundation since 2008 and currently the Chair of Board of Governors of Hisaar Foundation which he serves in a voluntary capacity. Mr. Ashir has a long history of devoting time to social causes and citizens driven initiatives. He completed his post-graduation in Hospital Management with University of Minnesota and BBA from University of Memphis. He spends his leisure time listening to music, sports, travelling and working with civic bodies.



AMJAD IQBAL AHMED

A Chartered Accountant by profession from the Member Institute of Chartered Accountants England and Wales, Mr. Amjad Iqbal Ahmed is the Chief Executive and partner of a family business.



ASHRAF KAPADIA

Ashraf Kapadia is a very senior Management and IT Consultant with over 40 years of experience in the IT Industry. During his long career, he has worked in various technical and managerial positions in Pakistan, England, Italy, United Arab Emirates, and the United States of America, and has been involved in many large and complex projects. Ashraf Kapadia formed AshrKap Consulting in July 2004 which is a not-for-profit organization with the objective of providing mentoring and guidance to young entrepreneurs and start-ups and continues to provide mentoring on a no-cost, no-obligation basis. He joined AT&T Corporation in May 2015 and currently serves as the Country Manager (Pakistan Branch). Ashraf Kapadia has also served as the Chairman of the Pakistan Software Houses Association (P@SHA), Chairman of the Computer Society of Pakistan (CSP), member of the Board of Directors of Pakistan Software Export Board (PSEB), member of the Management Committee of the Karachi Institute of Information Technology (KIIT), Chairman of the Organization of Pakistani Entrepreneurs (OPEN) Karachi Chapter, member of the Board of Trustees of the Publican Alumni Trust (PAT), member of the Board of Governors of Hisaar Foundation, and member of the Board of Directors of MIT Enterprise Forum of Pakistan.



BADARUDDIN FATEHALI VELLANI

Badaruddin F. Vellani is an Honours graduate in Chemical Engineering from the Loughborough University of Technology and also a Barrister at Law from the Middle Temple (London). Mr. Badaruddin Vellani was called to the Bar in 1982 and commenced legal practice in Karachi immediately thereafter. Mr. Vellani is enrolled as an Advocate of the Supreme Court of Pakistan and is a partner in the law firm of Vellani & Vellani. In addition to his legal practice, Mr. Vellani is a member of the Board of Directors in several multinational companies covering the FMCG, manufacturing, medical and philanthropy sectors and is also a member of the governing body of several not-for-profit organizations.



MARIAM HALAI

Ms Mariam Halai, a financial consultant, heads the Research & Analysis Bureau, a consulting firm offering financial analysis and accounting services to small businesses since 1990. She was a part time lecturer, teaching Accounts and Finance at Institute of Business Administration, Karachi for 10 years. Currently, she serves on the Managing Committee of SCINOSA (Society for Children in Need of Special Attention), a school for special children, and AEF (Accident & Emergency Foundation), an NGO managing JPMC's Emergency Operating Theatre.



MEHER MARKER NOSHIRWANI

Ms Meher M Noshirwani with Masters in Sociology from the University of Essex, United Kingdom. As a sociologist with 30 years of experience in the field of women, development, environment and climate change, first with Shirkat Gah (a women's NGO) and currently with TCCR, she has developed projects and programmes on the theme of gender, livelihoods, and sustainable development.

As a member of IUCN's Pakistan National Committee she has served on the Executive Committee of the Pakistan National Committee (PNC), participated in four of IUCN's World Conservation Congresses and has been a member of IUCN's Commission CEESP since 2010, and a member of the theme on Sustainable Livelihoods and Sustainable Use Specialist Group.

She is currently also working as a Consultant and Researcher on Gender and Environment issues and is the Regional Vice Chair for Asia of the Commission on Environmental, Economic, and Social Policy (CEESP) of IUCN and is also the Technical Advisor to the Trust for Conservation of Coastal Resources (TCCR).



NADIRA PANJWANI

Ms Nadira Panjwani, a social worker and philanthropist based in Karachi, is the Founder and Managing Trustee of the Panjwani Charitable Foundation and Trusts, Managing Trustee of the PANAHA Shelter Home for Women and All Pakistan Women's Association, Founding Director of the Pakistan Human Development Fund, Founder of the Zainab Panjwani Memorial Hospital and the Dr Panjwani School/College for the Blind and a member of the Jinnah Society.

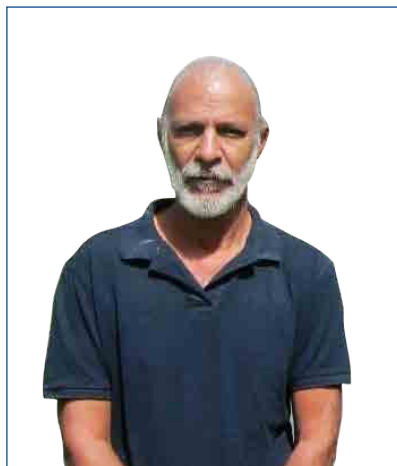
Ms Panjwani has been teaching at the Bahria University, as an honorary lecturer at the post graduate level since 1996 and has also served as a member of Board of Governors of the Higher Education Commission of Pakistan, Syndicate of the Dow University of Health Sciences, Board of Governors of the National University of Modern Languages, Syndicate of the NED University, Executive Board of the ICCBS University of Karachi, Board of Governors of the Bahria University, and numerous other academic and health bodies.

Nadira Panjwani also served as the Minister for Women Development and Population Planning in the 2007-2008 caretaker cabinet of Sindh. In recognition of her meritorious services in the field of public service, the President of the Islamic Republic of Pakistan conferred upon her the prestigious awards of Sitara-i-Imtiaz in the year 2000 and Hilal-i-Imtiaz in 2004.



SARFARAZ A. RAHMAN

Sarfaraz Rahman is a chartered accountant by qualification and has 30 plus years of professional work experience, mainly in the FMCG industry. He commenced his career with Unilever in 1983 and spent time in Finance, Marketing Services, Management Accounting and Cost Saving projects. Moving on to Smithkline Beecham, he was involved in the Merger and Strategic Planning at the time of the merger. Later, he spent several years abroad with Jardine Matheson/Olayan mainly in Finance and Business Development. He set up the first Logistics Service Provider in the Middle East. Mr. Rahman then moved to PepsiCo, managing the Pakistan/Afghanistan Business Unit. In 2000, he received the Chariman's Award, whereas under his leadership the company won the Franchise of the Year in 2001. Mr. Rahman launched Engro Foods Limited (EFL) in 2005, and for over six years he was in the position of CEO. The company won the G20 World Top 15 company award in early 2012, as a leader in innovation worldwide. Sarfaraz then moved out of commercial operations into CSR with Dawood Foundation in November 2011. Mr. Rahman moved back to Engro Foods Limited as Chief Executive Officer with the Company winning the prestigious FT/IFC Transformational Business Award 2014 under his leadership.



TOFIQ PASHA MOORAJ

With 30 years of experience in horticulture, floriculture, landscape designing, home based food production and water management, especially of smaller farms at the grassroots level, Mr Tofiq P. Mooraj has introduced different varieties of high revenue crops interfaced with using water judiciously in different areas of Sindh, in particular the Indus Delta and the Indus Basin region. His special field of interest is the development of food and protection of environment, especially water. Mr. Mooraj is a Member of Pakistan Water Partnership, Indus Delta Area Water Partnership, an active supporter of the Women and Water Network Pakistan and also a South Asia Focal Point of the Dialogue on Water Food and Environment.

LIST OF COUNCIL MEMBERS

Name	Credentials
Mr A G Pirzada	Ex Government Officer and Agriculture Specialist
Ms Aliya Yusuf	Barrister
Ms Ayesha Khan	Social Science Researcher
Ms Anis Ajani	Social Development Specialist
Ms Ayesha Tammy Haq	Barrister/ Media Specialist
Mr Danish A Khan	Development Sector Expert
Ms Farkhanda Aurangzeb	Professor / Gender Specialist
Brig Ifthikar Haider	Water Specialist
Mr Khalid Mohtadullah	Water Specialist
Dr Mehmood Mehdi Kazmi	Business Executive
Dr Nadeem Qamar	Medical Practitioner/Cardiologist
Mr Nasir Panhwar	Development/Environmental
Dr Pervaiz Amir	Environmental Economist/Water and Climate Change Specialist
Mr Raees Gaya	Chartered Accountant/Company Executive
Mr Rafay Alam	Environmental Lawyer
Ms Rahat Najam	Environmental/Wetlands Specialist
Mr Salman Butt	Media/Communication/Marketing Specialist
Mr Sarwar Mushtaq	Media Specialist
Mr Sikandar Gulzar	Management Consultant
Ms Simi Kamal	Gender and Water Specialist /Development Consultant
Mr Zahid Adamjee	Philanthropist
Ms Zahra Rahim	Management Specialist/Water Sector Resource Professional
Ms Zia Niazi	Educationist/Material Production
Mr. Zulfiqar Halepota	Journalist, Water activist

THINK TANK ON THE RATIONAL USE OF WATER

Following its international conference held in December 2013, "Water Co-operation – From the Global to the Grassroots" and issuance of Karachi Declaration on Water Initiatives 2013, Hisaar Foundation has developed a three-pronged approach to move forward: a think tank on the rational use of water, a universities for water network and a draft water policy for the consideration of the government.

The main purpose of the Think Tank is to provide national leadership in Pakistan on the crucial issue of promoting the rational use of water, its improved management and providing policy directions.

The Think Tank is expected to accomplish the following goals:

1. Establish a national forum for discourse on rational use of water
2. Develop and present water policy alternatives as an aid to the government to come up with a comprehensive and viable water policy for Pakistan
3. Bring together creative minds from across development and corporate sectors to work with water experts for deliberations on key water issues and solutions
4. Carry out advocacy and networking or rational use of water at the highest levels of government, civil society and the corporate sector
5. Provide guidance to Pakistani universities (through Hisaar Foundation's Universities for Water Network)



THINK TANK ON THE RATIONAL USE OF WATER

MEMBER PROFILES



Aliuddin Ansari

CEO, X Petroleum &
Former CEO, Engro
Corporation



Daanish Mustafa

Reader in Geography,
King's College, London



Jamal Akbar Ansari

CEO, Akbar
Associates Group



Khalid Mohtadullah

Senior Advisor, GWP
& ICIMOD and Former
Member WAPDA



Salman Shah

Former Finance
Minister, Government
of Pakistan



Sarosh H. Lodi

Vice Chancellor, NED
University of Engineering
& Technology



Seema Taher Khan

CEO, News One
& TV One



Simi Kamal

SGH Grants, PPAF & Chair,
Academic Committee,
Hisaar Foundation



Zohair Ashir

Chairperson, Hisaar
Foundation

THINK TANK ON THE RATIONAL USE OF WATER



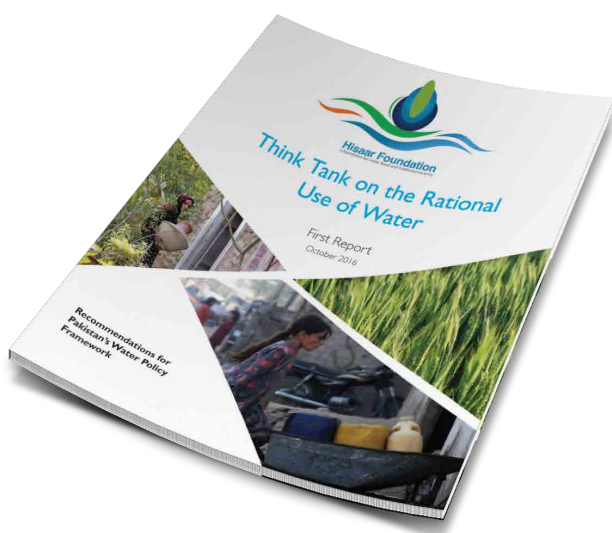
The Think Tank met several times over the last two years. A major part of 2016 was spent on developing the recommendations for Pakistan's national water policy framework. Through a series of consultative and consensus building sessions with stakeholders from various sectors in various cities of Pakistan, the policy recommendations were published in a report in October 2016. The Think Tank First Report contained the Recommendations for Pakistan's National Water Policy Framework collectively authored by the Think Tank members, along with a paper on Drought Management and Arid Zones, by Dr. Daanish Mustafa and Ms. Sanaa Baxamoosa and a paper on Water Economy led by Dr. Salman Shah.

During this period, the Think Tank held five meetings – in Karachi in February and August 2016, in Islamabad in January 2017, in

Peshawar in September 2017 and in Lahore in October 2017. With the development of the policy recommendations, the Think Tank members decided to revisit the objectives of the Think Tank and focus especially on the dissemination of the water policy recommendations at all levels. The Think Tank members believe that Hisaar Foundation and its Think Tank have produced a significant document that needs to be disseminated at all levels to get the buy in of the various provincial and federal governments as well as the various water stakeholders whose views it hopes to represent. Therefore, the Think Tank has agreed to focus its energies and efforts on dissemination of the policy recommendations primarily and secondarily on developing a paper on urban water management, and conducting research on water management institutions.

RECOMMENDATIONS FOR PAKISTAN'S NATIONAL WATER POLICY FRAMEWORK

At the second Karachi International Water Conference on "Securing Sustainable Water for All: Inclusion, Integration and Innovation" which was held on 17th and 18th November 2015, the participants called for the development of an actionable national water policy framework which could be taken to federal and provincial governments for implementation. Over the next two years (2016 and 2017), the Hisaar Foundation Think Tank on the Rational Use of Water committed all its efforts into developing such a water policy framework. The "Recommendations for Pakistan's National Water Policy Framework" are a culmination of two years of extensive discussions, debates, deliberations amongst the Think Tank members as well as several stakeholder sessions and meetings with water experts, government functionaries, the corporate sector, the business community, international agencies, academia, women's groups, youth groups, civil society and the media in various cities of Pakistan.



Focus of Water Policy Framework

The framework has five focus areas:

1. Improving access to water for the poor and landless and maximizing water use efficiency
2. Financing the urban and rural water economies and the water value chain
3. Safeguarding the Indus Basin, its aquifers and its infrastructure
4. Improving water governance and management of water institutions
5. Building a base for science, technology and the social aspects of water



RECOMMENDATIONS FOR PAKISTAN'S NATIONAL WATER POLICY FRAMEWORK

National Water Goals over Next 10 Years

The framework has 10 clearly defined goals, with time frame and quantitative targets over a ten year period. These include the following:

1. Bring 5 million new acres of land under cultivation and distribute to poor and landless farmers in defined arid districts of all provinces (including southern parts of KP)
2. Mobilize 5 million acre feet (MF) of surface water to reach farm gate by third year of this policy and 10 MAF each year by the seventh year of the policy
3. Improve water efficiency from current 33 percent to 43 percent
4. Achieve US\$ 1 billion output for every MAF of water
5. Preserve, maintain and add to existing water infrastructure
6. Revise abiyana to reflect real value of water
7. Control withdrawal of groundwater
8. Generate additional 10,000 megawatts if indigenous hydropower (instead of thermal power)
9. Institute coordination among water, agriculture and industry for maximum benefits
10. Make investments in water infrastructure and hydropower a core part of CPEC

The policy framework was produced as part of the first report of the Think Tank in October 2016 and formally launched in December 2016 in Karachi.



The Karachi launch event took place on the 20th of December 2016 at the Center for Excellence in Journalism at IBA City Campus.

The policy framework was presented by Ms. Simi Kamal, Convener, Think Tank on Rational Use of Water. The panelists included notable personalities such as Dr. Arif Alvi, MNA, Mr. Samar Ali Khan MPA, Mr. Ehsan Malik, CEO Pakistan Business Council, Mr. Abdul Fateh Tunio from Planning and Development department, Mr. Irshad Bohi, General Manager WAPDA Hyderabad and Ms. Seema Taher Khan, Member Think Tank on the Rational Use of Water and CEO Airwaves Media. The discussion was moderated by Mr. Zohair Ashir, Chairperson Hisaar Foundation.

In conclusion, Ms. Seema Taher Khan urged the Sindh government to adopt the policy framework for implementation at all levels. She also presented some songs that she had developed which depicted the plight of the people of Tharparkar and other arid areas. This launch event was attended by over a 100 participants who commended Hisaar Foundation on its efforts and endorsed the water policy recommendations.



RECOMMENDATIONS FOR PAKISTAN'S NATIONAL WATER POLICY FRAMEWORK



The next launch event was held on 28th December 2016 in collaboration with the Water and Informatics Technology Center at Lahore University of Management Sciences (WIT-LUMS). The policy framework was presented by Dr. Salman Shah, Member, Think Tank on Rational Use of Water and former Finance Minister, government of Pakistan. The panelists included notable personalities such as Mr. Abdul Basit, President FPCCI, Mr. Arif Nadeem, former Secretary Irrigation, Dr. Abubakar Muhammad, Director, WIT and Mr. Khalid Mohtadullah, member Think Tank on the Rational Use of Water and international water expert. The discussion was moderated by Ms. Simi Kamal, Convener, Think Tank on the Rational Use of Water. Approximately 90 people attended this event representing different water stakeholders, including academia, media, corporate and business sector, government, civil society and women. Following this launch, the Punjab government prepared a draft of Punjab water policy based on the recommendations proposed by the Hisaar Foundation Think Tank.



The next launch was held on 27th January at Serena Hotel with the support of Akbar Associates Group in Islamabad and was attended by over 180 participants. Mr. Zohair Ashir, Chairperson, Hisaar Foundation commenced the proceedings with a brief introductory presentation on Hisaar Foundation and its work. The policy framework was presented by Ms. Simi Kamal, Convener, Think Tank on Rational Use of Water. The panel was moderated by the effervescent Dr. Daanish Mustafa from King's College, London and the panelists included notable personalities such as, Dr. Salman Shah, former Finance Minister who spoke of the importance of the water economy and inaction of the government in developing a water policy, Mr. Qazi Azmat Isa, CEO Pakistan Poverty Alleviation Fund who reiterated the urgency of the water crisis and highlighted the importance of investing in the people and not just infrastructure. Mr. Jamal Ansari, CEO Akbar Associates Group stated that water is a most undervalued resource and emphasized the lack of focus on groundwater management and quality. Ms. Seema Taher Khan CEO News One and TV One presented the way forward and outlined the plan of action and implementation at all levels. The Chief Guest, Ms. Marriyum Aurangzeb, Minister of State for Information and Broadcasting highlighted the importance of awareness of ownership at all levels and invited Hisaar Foundation to the

RECOMMENDATIONS FOR PAKISTAN'S NATIONAL WATER POLICY FRAMEWORK

Standing Committee on SDG's to present the policy framework to the government. Mr. Istvan Kovacs, Commercial Counsellor also addressed the audience. He lauded the efforts of the Hisaar Foundation and highlighted the importance of water cooperation with countries like Australia and Hungary.



The fourth launch was held on 10th March 2017 at Indus Hotel in Hyderabad. This launch event was organized with support and collaboration of local partners as TRDP, SAFWCO, TRDP Microfinance Foundation and Center for Social Change. Mr. Zohair Ashir commenced the proceedings with an introductory presentation on Hisaar Foundation and its work. Ms. Simi Kamal, Convener Think Tank presented the policy recommendations. The panel discussion was moderated by Mr. Zulfiqar Halepota, Council Member Hisaar Foundation and the panelists included the following: Dr. Rajab Memon, technocrat and scientific expert, Mr. Mehmood Nawaz Shah, President of Sindh Abadgaar Board, Dr. Bakshal Lashari, Project Director, US-Pakistan Center for Advances Studies on Water and water activist Mr. Abrar Kazi. Mr. Muhammad Khan Nizamani, Managing Director Sindh Irrigation and Drainage Authority (SIDA) represented the government and its views. Mr. Zohair Ashir, Chairperson Hisaar Foundation commenced the proceedings and vote of thanks was given by Mr. Suleman Abro, Chief Executive, SAFWCO. Over 80 participants

attended the launch event which included stakeholders of the water sector, academia, business community, media, civil society etc. The Hyderabad event concluded with a formulation of a working group that has committed to developing a provincial water policy for Sindh by the end of the year 2017.



The policy recommendations were launched in Peshawar, Khyber Pakhtunkhwa (KP) on 25th September 2017 with the support of The Asia Foundation. The government of KP whole heartedly participated in this event with attendance from H.E. Mr. Pervez Khattak, Chief Minister, GoKP as Chief Guest, Mr. Atif Khan, Senior Minister for Energy and Education and Mr. Shah Farman, Minister for Public Health Engineering as speakers and water champions within the KP government. The seminar commenced with welcome remarks from Mr. Zohair Ashir, Chairperson, Hisaar Foundation, followed by remarks from Mr. Shah Farman, Minister for Public Health Engineering, GoKP who assured the members of HF Think Tank of full support in the formulation of the provincial water policy on behalf of the KP government. Next, Mr. Atif Khan, Senior Minister for Energy and Elementary and Secondary Education presented the keynote address. He declared himself to be the water champion within the KP government. He committed to identifying focal persons within the four relevant departments

RECOMMENDATIONS FOR PAKISTAN'S NATIONAL WATER POLICY FRAMEWORK

(energy, agriculture, public health engineering and irrigation) that he oversees and establish a committee that would take up the responsibility of formulating the provincial water policy for KP. Next, Ms. Simi Kamal, Chair, Academic Committee and Convener, HF Think Tank presented the recommendations for Pakistan's national water policy framework, with a special emphasis on the policy implications for the province of KP. The Peshawar seminar and the preceding launches of the policy recommendations were referred to as a call-to-action from citizens of Pakistan for the formulation and implementation of national and provincial water policies by the governments.

The presentation of the policy recommendations were followed by a panel discussion moderated by Mr. Zohair Ashir. The panelists included notable personalities such as Dr. Muhammad Asif Khan, Vice Chancellor, University of Peshawar, Mr. Muhammad Atif Khan, Minister for Energy and Elementary and Secondary Education, Ms. Simi Kamal, Convener HF Think Tank, Mr. Saleem Qureshi, GM Wapda North, Mr. Nasir Khan, CEO Water and Sanitation Services Company Mardan, Mr. Rafay Alam, Environmental lawyer and Ms. Neelam Toru, President, Provincial Commission on Status of Women, KP.

The panel discussion came to an end with the arrival of the Chief Minister, Mr. Pervez Khattak. Mr. Jamal Ansari, Member, HF Think Tank and CEO, Akbar Associates Group presented the way forward to the audience. He appreciated the efforts of the KP government in devising innovative policy initiatives in reforming areas that impact public life



The Chief Guest, Mr. Pervez Khattak, Chief Minister Khyber Pakhtunkhwa in his closing

address said that "Water is the dominant source of life for nations and should have been an integral part of our internal and foreign policies", He added that it must be first priority of our governments to educate and mobilize the people in cities and towns to protect the water resources and not to allow its wastage. He appreciated the role of Hisaar Foundation and The Asia Foundation for their sincere efforts in formulating the national water policy and undertaking research work in this regard and assured that provincial government would not only consider its recommendations seriously but would extend all possible support to it in future too. He said that all the concerned departments, authorities and stakeholders including irrigation, public health, energy, local government, environment, communication & works departments were being instructed to adopt solid and practicable measures for stopping wastage of water resources, protecting the water reservoirs and working for drastic increase in it. Similarly, the network of small dams was also being expanded throughout the province.



Mr. Pervez Khattak, Chief Minister KP agreed with the viewpoint of water experts that the people could only benefit from the fruits of these efforts by streamlining the works of all departments and sectors associated with environmental health and increasing water resources. He committed that his government would take effective steps in this regard as well.

The Peshawar seminar concluded with a vote of thanks by Ms. Sofia Shakil, Country Representative of The Asia Foundation in Pakistan.

UNIVERSITIES FOR WATER NETWORK

The University of Karachi hosted the fourth meeting of the Universities for Water Network (UWN) on the 21st and 22nd of April 2016. The fourth meeting was held with the objective of furthering the UWN research agenda and ensuring the fulfillment of the collective responsibility of the UWN member universities. A consultative session was organized on the first day of the meeting to deliberate mechanisms for increased collaboration amongst member universities. Deliberations and engaging discussions were held on the water economy of Pakistan, Pakistan's national water policy, leveraging of Pakistan's water and land resources for the economic prosperity and development of Pakistan and Balochistan groundwater management crisis. Discussions focused around a solutions-oriented approach to the abovementioned issues. The second

day of the UWN meeting consisted of a seminar to celebrate the "Earth Day" and "World Water Day". The seminar commemorated the themes of Earth Day and World Water Day and most of the presentations of the students and teachers also revolved around these themes. A poster competition was also held amongst students of KU to observe World Water Day and the best posters were given awards.

Prof. Dr. Jamil Kazmi, Chairman Department of Geography commenced the proceedings and said a few words about the Universities for Water Network and World Water Day and Earth Day. Ms. Simi Kamal, Founder Hisaar Foundation and Co-Chair UWN gave an interactive presentation on "Earth for Life" which was well received by the students and audience. Her passionate and inspirational talk led to the KU students signing the pledge to



UNIVERSITIES FOR WATER NETWORK

support "Pakistan for Life," an initiative for the purpose of welfare and water security which aimed at green governance, green legislation, green business, planting indigenous trees, water conservation, environmentally friendly architecture, and Pakistan Funds for "Pakistan for Life."

Vice Chancellor, University of Karachi, Prof. Dr. Muhammad Qaiser also addressed the participants of the seminar and spoke about the importance of water security. Mr. Zohair Ashir, Chairman Hisaar Foundation and Dr. Pervaiz Amir, Council Member Hisaar Foundation were also present at the seminar and distributed certificates to the presenters.

The seminar was followed by a Tree Plantation Activity at the department of Geography led by veteran horticulturalist and Hisaar Foundation Governor, Mr. Tofiq Pasha Mooraj. The current Chairperson, Mr. Zohair Ashir and Founder Chairperson Ms. Simi Kamal along with the staff of Hisaar Foundation planted trees outside the department of Geography at the University of Karachi.

The Tree Plantation Activity was followed by the inauguration of the Dr. Iqtidar H. Zaidi Digital Image Processing Lab in the Department of Geography by the Vice-Chancellor, University of Karachi.

The Universities for Water Network held one meeting at the Lasbela University of

Agriculture, Water and Marine Sciences in Utthal, Balochistan in April 2017. The meeting was moderated by Ms. Sanaa Baxamoosa, Convener UWN, chaired by Prof. Dr. Dost Muhammad Baloch, Vice Chancellor LUAWMS, and attended by representatives from University of Karachi (UoK), NED University of Engineering and Technology (NEDUET), Institute of Space Technology (IST), US-PCASW Mehran



University of Engineering and Technology (MUET), Lasbela University of Agriculture, Water and Marine Sciences (LUAWMS) and Hisaar Foundation (HF) staff members. About 30 water sector specialists/academics and 20 students from LUAWMS, IST and MUET participated in the meeting. There was a dedicated session to discussing the policy recommendations developed by the Think Tank. There were also technical sessions on Balochistan ground-water management and an open seminar for a wider audience.

The UWN also increased its membership to include the Institute of Space Technology at SUPARCO (COMSATS), University of Punjab, Lahore with its Center for Earth and Environmental Sciences and also signed an MOU with the University of Peshawar. The UWN continued to work on developing various databases including a database of research institutes and organizations working on water in Pakistan.



CREATING PARTNERSHIPS

Hisaar Foundation continued to play an integral role in anchoring and strengthening the Area Water Partnerships and Women and Water Networks that were created under the aegis of the Karachi Water Partnership. A number of activities were conducted throughout the year, some of these are outlined below.

SCHOOL ADVOCACY/ACTIVATION PROGRAMME

GT in the Community CSR Day, September 22, 2016

Hisaar Foundation has been involved in campaigns to raise awareness of water conservation in schools of Karachi. In this regard, Grant Thornton Pakistan and Hisaar Foundation jointly organized a Water Conservation Session and carried out a water sensitization campaign at Anjuman-e-Islamia Government Girls Secondary School, Karachi on September 22, 2016. Approximately 200 school girls were sensitized on water conservation and better hygiene practices. The session also included speech and art competitions and prizes were distributed to the winners.



World Water Day in Schools

To mark the World Water Day, Hisaar Foundation mass distributed its water conservation guidelines for the benefit of the greater community. These guidelines were sent to all the UWN member universities, the government schools that benefitted



from the Foundation's interventions in providing water coolers and members of the Women and Water Networks for wider distribution within their areas and communities.



Women and Water Networks

Members of Women and Water Networks were engaged throughout 2016 and 2017 in different capacities. Some WWN members especially played an integral role in identifying schools and areas that required water interventions or installation of water coolers/filtration plants.

A meeting was held in May 2016 at Hisaar Foundation with members of the Women and Water Networks to explore possibilities of

CREATING PARTNERSHIPS

collaborating in heat wave relief efforts. All the members were very forthcoming and committed to helping out as much as they can.

A meeting was held on 2nd June 2016 with NGOs and women water professionals who have worked with women empowerment as well as local members of WWN. This meeting enabled Hisaar Foundation to introduce the concept of WWN to the local NGOs and expand its membership base to include women-oriented and women-led NGOs. The meeting also provided a platform for Hisaar Foundation to introduce its draft of the water policy to not only NGOs but also local women and gain their endorsement of it.

Engagement with Youth

Realizing the importance of mobilizing civil society on water related issues, Hisaar Foundation jointly organized a round table discussion focused on the water targets of the Sustainable Development Goals with COMSATS Islamabad Campus, Hans Seidel Foundation, Pakistan Youth Parliament of Water, and Youth Parliament for Kashmir.

The session was held on the 11th of April, 2017 at Islamabad Club. The aim of the session was to deliberate on the four SDGs that are mentioned below, specifically in the context of water. The four groups that worked on the selected themes came up with three challenges, three solutions and one recommendation pertaining to each theme to showcase their insight on the matter. These four groups were divided into the following theme groups:

- No. 6: Clean Water and Sanitation (I: Clean Water): ensuring access of water and sanitation for all.
- No. 6: Clean Water and Sanitation (II: Sanitation): ensuring access of water and sanitation for all.
- No. 13: Climate Action: Take urgent action to combat change and its impact
- No. 15: Life on Land: protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

At this event, Dr. Jurgon Zoll (Development Counselor, German Embassy) praised the participants on their admirable performance in generating productive discussion, which led to a valuable output in terms of identifying the key challenges and solutions pertaining to such an important theme. He then acknowledged the fact that Pakistan had enormous potential to become excellent economic upstream provided it dealt adequately with its water challenges. Moving forward, he addressed water as the core element of human rights, which it is essential for not only industrial development but for peaceful development as well.

Mr. Kamran Naeem (WASH Specialist, UNICEF) particularly focused on explaining the targets of SDG 6 which relates to clean water and sanitation. He highlighted the alarming situation of these two areas in Pakistan. He then went on to explain the targets set by SDG 6 and where Pakistan stood when it came to these targets. Particularly mentioning sanitation, he stated that even in this day and age Pakistan still faced the problem of open defecation. Mr. Naeem then stressed on the role of the community, particularly the youth, in making it possible to achieve these targets.

At the conclusion of the event, the 4 thematic groups presented three challenges, three solutions and one recommendation pertaining to each theme to showcase their insight on the matter.



Saving Thar with Old Associates of Kinnaird Society

Old Associates of Kinnaird Society (OAKS) and Hisaar Foundation renewed their collaboration

CREATING PARTNERSHIPS

for the upliftment of the community by signing a Memorandum of Understanding (MOU) on Tuesday, 26th April 2016. The “Long Term and Sustainable Support in Thar Region for the Construction and Rehabilitation of Deep Dugwells and Village Development Activities” project pledges the construction of more deep dugwells in the Chachro region, District Tharparkar. The MOU was signed by Ms. Mehnaz Nadeem, President OAKS and Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation in the presence of OAKS Committee Members and HF staff. Founder Chair, Hisaar Foundation, Ms. Simi Kamal along with several OAKS donors were also present at the occasion.

This MOU fulfilled the need for creating a wide-ranging impact in District Tharparkar. In addition to the construction of new deep dugwells, the MOU calls for rehabilitation of existing dugwells to increase their lifespan as well as initiate village development activities for the overall upliftment of the people.

Sharing a Common Water Vision with Comprehensive Disaster Response Services (CDRS)

Hisaar Foundation signed an MOU with Community Disaster Response Services on 25th August 2017. The MOU was signed with the view to collaborate with each other on a long term basis because both organizations share values and a common vision for development of water, food, environment and livelihood security.

Providing Water Security with Hope Uplift Foundation

Hope Uplift Foundation joined hands with Hisaar Foundation and signed an MOU on 24th July 2017 to support development of water projects in Tharparkar.



Water Sector Development with The Asia Foundation

The Asia Foundation and Hisaar Foundation signed a Memorandum of Understanding on June 16th, 2017 to collaborate in water sector development in Pakistan. Both organizations will promote far-sighted water sector policies which are crucial to ensure a good quality of life for the people of Pakistan. Better management of water in rural and urban environments and conservation of Pakistan's water resources, while increasing access to water for consumers and agriculture, will create new economic opportunities and improve living conditions. The two organizations will aim to produce research, propel the water policy debate forward, demonstrate innovative solutions to conserve water, and support key stakeholders in their worthy efforts to improve Pakistan's water security.

The Asia Foundation is a non-profit international development organization committed to improving lives across a dynamic and developing Asia with six overarching goals - strengthen governance, empower women, expand economic opportunity, increase environmental resilience, and promote regional cooperation. The collaboration will benefit from mutual knowledge and experience of both organizations.



Developing solutions has been at the core of all programmatic interventions undertaken by Hisaar Foundation. Projects and programmes are designed such that low cost and creative solutions form an integral part of all water, food and livelihood related interventions and activities. The vision of the organization is balancing development with environment and its mission is the promotion of appropriate policies and creative, low-cost solutions for conservation in Pakistan by working on water, food, livelihood security and climate change issues, therefore developing solutions is a key component of Hisaar Foundation's overall programme strategy.

Hisaar Foundation is committed to building the lives and resilience of the vulnerable communities in the drought-prone areas of Tharparkar, by focusing on installing deep dugwells, hand pumps and water storage tanks and initiating low cost solutions that contribute to the general improvement of the people residing in the drought-prone areas. Hisaar Foundation believes that providing water and food security is essential to the prosperity of the vulnerable communities in Tharparkar.



ADOPT A VILLAGE PROGRAMME

Drought is a cyclical process in Pakistan and the Chachro and Tharparkar districts are hit by extreme droughts time and again. With the changing parameters and realities of climate change and the increasing frequency of natural disasters, it is imperative that drought-prone communities are enabled and empowered to cope with droughts in the future.

The Adopt a Village project is designed to build the lives and resilience of the vulnerable communities in the drought-prone areas of Chachro, Nagarparkar and Tharparkar, by focusing on installing deep dugwells and initiating village development supporting activities that would contribute to the general improvement of the inhabitants.

The Adopt a Village project comprises the following activities:

1. Installation of Deep Dugwells
2. Kitchen gardening trainings
3. Fodder tree plantations
4. Ber Grafting
5. Goat Distribution
6. Solar Panels for Households

During the years 2016 – 2017, Hisaar Foundation with the support of the Old Associates of Kinnaird Society (OAKS) was engaged in executing Adopt a Village projects in three different villages in Tharparkar. The pilot was initiated in a village called Mithriyo Rajh, Meghwar Paro, Union Council Tagusar. This village is located approximately 70 km each of Islamkot.

The village comprises of 35 households with a population of approximately 245 people including men, women and children and a veterinarian population of approximately 550 including goats, camel, donkeys and sheep.

The second Adopt a Village project was initiated in a remote rural village called Hanjtal, Union Council Vejhiar, Taluka Chachro village. This village is located 20 km from Chachro, District Tharparkar. The village comprises of 60 households with a population of approximately 500 people including men, women and children and a veterinarian population of approximately 650 including goats, camel, donkeys and sheep.

The third project was implemented in a remote rural village called Rohaj Halepoto, Union Council Tagusar, Taluka Nagarparkar. This village is located approximately 36 km north of Nagarparkar. The village comprises of approximately 157 households with a population of approximately 1100 people including men, women and children and a veterinarian population of approximately 1500 including goats, camel, donkeys and sheep. The village has a poor and diverse community comprising of Meghwar, Bheel, Kohli and Halepota.



PROVISION OF WATER SECURITY

The first phase in the Adopt a Village project is providing water security. For this purpose, a new deep dugwell was constructed in each of the project villages. The well is provided to increase and improve access to scarce water resources.



LIVESTOCK DISTRIBUTION

Livestock is the main source of income and food for the villagers. Goats were provided to each household so that the villagers would benefit from kidding and production of milk. Goats were distributed to 35 women residing in Mithriyo Rojh on 24th July

2016 and 25th July 2016. On 4th February 2017, goats were provided to 60 women of Hunjtal village and 80 women were gifted goats on 3rd February 2017 at Rohaj Halepoto village.



KITCHEN GARDENING

Two three-day trainings were conducted by Hisaar Foundation on Kitchen Gardening for the village community from 27th to 29th November, 2016 at Village Mithriyo Rojh, Meghwar Paro, Taluka Nagarparkar District Tharparkar. A total of 35 women participated in the kitchen gardening workshops at this village.

Two three-day trainings were conducted by Hisaar Foundation on Kitchen Gardening for the village community during 5th, 6th and 7th January 2017 at Village Hanjtal, Taluka Chachro District Tharparkar. A total of 60 women participated in the kitchen gardening workshops.

Two three-day trainings were conducted by Hisaar Foundation on Kitchen Gardening for the village community from 24th to 26th November, 2016 at Village Rohaj Halepota, Taluka Nagarparkar District Tharparkar. A total of 80 women participated in the kitchen gardening workshops at this village.

The kitchen gardening training was aimed at strengthening the capacities of community members about nurturing traditional skills and knowledge, as well as developing new abilities, that will enable one to turn this understanding

into a living reality. The main objective was to enhance the capacity with entrepreneur skills and learn about kitchen gardening and Family Nutrition Kit.

Kitchen gardens are small plots of land between 16 and 20 square feet where villagers are able to grow spinach, radish, coriander, carrots and other produce. Villagers rarely eat green vegetables as they simply cannot afford to grow them, or do not have sufficient water or means to buy the necessary equipment. Women and children are, thus, unable to meet their nutritional needs and become weak, prone to infectious diseases, malnourished, anaemic and have in several cases developed night blindness as a result of vitamin A deficiency. Kitchen gardens are a way to meet the nutritional needs of women and children, while at the same time, supplementing household income through the sale of surplus produce in the market.

During the training, participants were also provided the following:

1. Seasonal chart of vegetables,
2. Importance of nutrition factors in vegetables
3. Agronomic practices in vegetables, criteria for site selection
4. Properties of seed
5. Rabi and kharif vegetables
6. Measures of pest control
7. Methods of cultivation through flood and drip irrigation
8. Preparation of land and uses of mineral nutrients and its importance
9. Methods and technique used in successfully installation of family nutrition kit
10. Sowing and irrigation methods
11. Practical demonstrations of sowing seeds



FODDER TREE PLANTATIONS

The village beneficiaries are purely an agro-pastoralist community, and livestock is one of their greatest sources of food and income. Planting fodder trees allows them to provide food for their livestock, and also adds greenery to the otherwise arid area. A total of 900 fodder trees were planted between the three villages. Two hundred fodder trees each were planted at village Rohaj Halepota between 24th and 26th November 2016 and village Mithriyo Rojh, Meghwar Paro between 27th and 29th November 2016. Five hundred fodder trees were planted at Village Hanjtal during January 2017.



SOLAR PANELS FOR HOUSEHOLDS

Two households were identified for the installation of solar units at the household level. Only two households in each of the villages at were initially selected to carry out a pilot. The solar panels were installed on 6th April 2017 at Mithriyo Rojh, Hunjtal and Rohaj Halepoto under the supervision of Hisaar Foundation programme staff. Beneficiaries were carefully selected according to needs. Special emphasis was given on women-headed households.

Name of Beneficiary	Wife of	Village
Wadli	Mithoo	Mithriyo Rojh
Ajoo	Rano (late)	Mithriyo Rojh
Bhaboo	Mehro	Hunjtal
Sawantri	Shankar	Hunjtal
Santoshi	Vinod	Rohaj Halepoto
Radhan	Bhambro	Rohaj Halepoto



BER GRAFTING

The beri is very rich in nutrition and can serve as an alternate source of food for the villagers, especially children due to its high nutritious value. The Ber is a drought-resilient crop, and can sustain the communities to a certain extent, in the dry months as well. Ber grafting was done in June 2017 in all three villages.



DEEP DUGWELLS

The conventional method of water supply in Thar and Chachro districts is the dug well which is believed to be the best method as

DEVELOPING SOLUTIONS

well. However, In a normal day, villagers spend around 4-6 hours on average to fetch 6-7 pots (90-105 liters) of water from the dug-well. By constructing dugwells at nearby locations, communities have gained easier access to water and the time of fetching water for women has also reduced considerably allowing them to engage themselves in other productive and household activities.

To date, Hisaar Foundation has constructed 64 new wells across Tharparkar, particularly in Chachro, Mithi, Islamkot and Nagarparkar. These wells have provided improved access to water resources for the local communities as well the local wildlife. These wells have implemented with a high level of community participation and locally available material and tools. Hisaar Foundation also engages community labourers during the construction and provides a source of livelihood for them. The wells have benefitted 67,900 beneficiaries in 65 villages across Tharparkar.



REHAB WELLS

Hisaar Foundation not only facilitates the construction of deep dug wells but also carries out rehabilitation of existing dug wells. After rehabilitation, the longevity and functionality of the well is increased by 30 to 40 years. Rehabilitation is also done through community participation and locally available tools and materials. To date, Hisaar Foundation has carried out rehabilitation work on 145 wells

across Chachro, Nagarparkar, Islamkot and Tharparkar districts. The rehab wells have benefitted 139,460 beneficiaries in 155 villages.



SOLAR POWERED WELLS & BORES

In keeping with its mandate of providing innovative solution, Hisaar Foundation has also installed solar panels on several of its wells to increase the lift capacity of the well and to help ease the fetching process. Solar panels run on daylight during the day and if needed, can be run on battery power during the night. The community impression is that this has reduced time and effort required in the collection of water. It has also resulted in a lower infant mortality rate because of less waterborne illnesses. During the years 2016 and 2017, solar panels were installed on 4 separate wells.

Hisaar Foundation also installed a solar powered bore at Village Dedhsar with the purpose of supporting domestic farming and agricultural activities. It was also a pilot to determine whether crops could be cultivated in brackish water.



HANDPUMPS

With the support of National Bank of Pakistan (NBP), Hisaar Foundation has installed 4 hand pumps in 2 villages located in Union Council Manjithi to provide closer access and also ease the process of fetching water for the communities. The four hand pumps are benefitting at least 144 families. This means providing water to a minimum of approximately 1200 people per day. Each handpump provides the people with a lifetime supply of water.

1) Village Jarunbari, UC Manjithi, Tharparkar

Village Jarunbari is located in Union Council Manjithi and consists of 129 households. It is situated at a distance of 75 km away from Mithi. The Meghwar and Hingorja castes reside in this village. The handpumps have enabled the communities to access sweet portable water at their doorsteps. With the support of National Bank of Pakistan, Hisaar Foundation installed three hand pumps at different hamlets (mohalla level) in Village Jarunbari, Union Council Manjithi, District Tharparkar.

2) Village Jhun, UC Manjithi, Tharparkar

Village Jhun is located in UC Manjithi and consists of 49 households. The inhabitants belong to the Muslim Mayana and Thakar Hindu communities. The village is situated at a distance of 70 km away from Mithi. The main income source of this village is rain-fed agriculture and

labour on salt factories. With the support of National Bank Pakistan, Hisaar Foundation has installed one hand pump in Mayana community. A total of 15 households are benefitting from the handpump. The villagers also engage in kitchen gardening and grow their own vegetables and food because of the improved access to fresh water.



WATER COOLERS

Karachi experiences hot weather with a severe heatwave where temperatures rise to 40-45 Celsius. In such conditions availability of water is scarce and access to cold water is rare. Using a needs-based framework, Hisaar Foundation identifies schools which require interventions, and provides water coolers to the schools. Hisaar Foundation is committed to providing water security in schools. Hisaar Foundation in an effort to provide safe and cold drinking water, facilitates the installation of water

DEVELOPING SOLUTIONS

coolers at various low income areas and community establishments such as schools and hospitals at Karachi. Most coolers provided by Hisaar Foundation have a capacity of 100 liters per day. During the years 2016 – 2017, with the generous support of our donors, Hisaar Foundation has installed water coolers in the following schools:

Name of School	Estimated # of Students with Teachers	Quantity of Water Cooler
Ibrahim Ali Bhai, Govt. Girls School Gizri Campus, Karachi	1,100	2
Aik Aik School, Zamzama	1,050	1
Govt. Girls Primary School, Liaquatabad No. 2	470	1
J.D. Bhojwani, Govt Boys & Girls School, Nazimabad No. 1	350	1
Anjuman -e -Islamia Girls Secondary School Liaquatabad No 10	1,000	1
RLCC		
Shah Faisal Colony	1,000	1
Kiran School Lyari		1
Marvi School-Mithi		1



WATER FILTRATION PLANTS

Over 38.5 million people cannot access clean and safe drinking water, and this results in very poor health and hygiene conditions. Hisaar Foundation facilitates the installation of water filtration plants to overcome this challenge. During the year 2016, with the support of Faysal Bank, Hisaar Foundation installed two water filtration plants at Central Jail Karachi, one at Juvenile prison and the other at the Women's prison. Additionally, during 2017, Hisaar Foundation also installed a big water filtration plant at Civil Hospital, near the cardiac ward for the benefit visitors and patients.



EMERGENCY SUPPORT

Providing Emergency Support is one of the main programmatic streams of Hisaar Foundation and HF has historically launched relief, mitigation and rehabilitation operations after emergencies and natural calamities. To date, HF has developed, launched and delivered 15 relief campaigns responding to earth quakes, floods, droughts and other natural calamities, the most recent ones being the Thar Relief Appeal 2016 and Vakrio Appeal 2017.

THAR RELIEF FUND 2016

Hisaar Foundation chose to focus its efforts towards the remotest villages of sub-district Chachro, where it has already spent over Rs.25 million in providing community relief and intends to continue to uphold its efforts in these areas to bring meaningful impact. Since HF has a strong footprint and an established relationship with the community of these villages, it had access to reliable data and a strong field network to execute distribution and relief activities.



Beneficiary Selection Process

The Hisaar Foundation team with its implementing partner, Thardeep Rural Development Programme (TRDP) identified the 200 most impoverished households in Hanjhtal village and Ogejopar village, both in UC Vejhiyar, TaluqaChachro, DistrictTharparkar.

HF identified that due to prolonged periods of drought the health of community dwelling was deteriorating especially of women and children, therefore the criteria for distribution was set as follows:

- Beneficiary must be a resident of the targeted villages
- Pregnant/lactating women
- Children must be between the ages of 6 months-15 years

It was ensured to give priority to the widows and families having children with any sort of disability. Therefore households with pregnant and lactating women and children under five years of age were identified as the cardinal beneficiaries for distribution of food commodities. Distribution of Food Ration Packs and Medicines The first round of distribution of Hisaar Foundation's food ration packs and medicines, attributed to the support of our

EMERGENCY SUPPORT

generous donors was held on Saturday, 19th March 2016. Food ration packs were distributed to 200 households, benefitting approximately 3500 men, women and children in the villages of Hanjtal and Ogejopar UC Vejhiyar, Taluka Chachro, District Thaparkar

Distribution Details

Food packs were enough for a month with the following composition:

Item	Quantity
Rice	15kg
Cooking Oil	5 liters
Milk (1/4kg)	2 Carton
Lentils	5kg
Biscuits (provided by EBM)	30 packets per child
Water (provided by Nestle)	2 bottles per household

Deworming Medicines

In the second phase it was agreed to distribute water to the households who were initially provided with food ration packs, deworming medicines and energy biscuits.

Based on our selection criteria, water bottles and energy biscuits generously provided by Nestle and English Biscuit Manufacturers respectively were distributed to the following villages, from 31st March, 2016:

U/C	Village	Households
Vejhiar	Hanjhtal	100
Vejhiar	Uge jo par	110
Vejhiar	Bhagtani	110
Vejhiar	KaroonjhriBheel	108
Vejhiar	Karoonjhri Peer	89

The students of Aitchison College, Lahore also supported Hisaar Foundation by sponsoring three rehabilitation wells in the affected area.

One rehab well is located in a village called Village Sohilo UC Sohilo Rajoro Taluka Chachro. The village population is 360 people along with approximately 250 veterinarian population.

The communities belong to Janjhi, Meghwar, Jasar, and Kolhi castes in this village.

The second rehab well is located south from Nangar village inside Taj Muhammad shah village UC Tagusar Taluka Nangar Parker. The village population is 260 people along with approximately 195 veterinarian population. People are from Meghwar, Kolhi castes in this village.

The third rehab well is located 48 km west from Chachro at in a village called Dadiyo Halepoto UC Rajoro. The village population is 260 people along with approximately 135 veterinarian population. People from Meghwar and Kolhi castes reside in this village.



VAKRIO APPEAL 2017

During the year 2017, Hisaar Foundation launched the Vakrio village appeal in collaboration with OAKS. This was in response to a fire that broke out on the 10th of May 2017 in Vakrio village and destroyed the properties of the inhabitants. Hisaar Foundation took immediate actions to provide emergency rehabilitation to families that had suffered loss of property, assets and belongings. This rehabilitation included distribution of 46 family relief packages consisting of iron beds, solar lamps and unstitched clothing for both men and women. Hisaar Foundation and OAKS further collaborated to support the rehabilitation and construction of 5 household units to help the local families better cope with their losses.

RAMAZAN APPEAL

In keeping with its mission of providing rehabilitation support and water, food and livelihood security, Hisaar Foundation launched its annual Ramadan Appeal for zakat and donations, to raise funds for the Foundation's school water and sanitation rehabilitation and emergency support programmes. In July 2016, the Ramadan Appeals specifically focused on the Foundation's interventions in Karachi, especially within public schools. In June 2017, the effort was aimed at raising funds for the Foundation's school water and sanitation infrastructure rehabilitation and its well programmes in Tharparkar that include construction of new well and rehabilitation of existing ones. In 2016 - 2017, the Ramadan Appeals specifically focused on the Foundation's interventions in Tharparkar and government schools of Karachi.



The Prophet sallallahu 'alaihi wasallam said:
"The best form of charity is giving someone water (to drink)"
(Ahmad, An-Nasaa'i and Ibn Maajah).



RAMAZAN APPEAL

HELP US TO GIVE SADAQAH JARIYAH, AND GIVE OTHERS THE CHANCE TO BUILD BETTER LIVES

Your Zakat & Donations will be sponsoring the following:

- New Deep Dug well (upto 120 ft) PKR 240,000
- Rehabilitation of a Well PKR 55,000
- Hand pumps PKR 60,000 each
- House Hold Water Tanks PKR 20,000 each
- Electric Water Coolers PKR 40,000 each
- Give Water Fund - any amount

HISAAR FOUNDATION
Bank: BANK AL - HABIB LIMITED
Account No: 1005-0081-021547-01-3
Website <http://hisaar.org/>
Address: House No F-11/1, Block 8,
Clifton, Karachi
Tel No: (92-21)35874547



ADVOCACY & NATIONAL ENGAGEMENTS



This year also Hisaar Foundation continued to organize dialogues and seminars and participate in national dialogues and seminars hosted and conducted by its partners.

Workshop on Water Conservation at TAF Foundation

On 1st November 2017, Ms. Sanaa Baxamoosa and Ms. Saleha Atif were invited by the TAF Foundation as guest lecturers to give a talk on water conservation better management of water. The third cohort of students of TAFF were told about the various ways in which they could save water and better manage scarce water resources in their daily routines, especially at the domestic level. TAF Foundation, a not For profit Section 42 Company that works in the areas of Education, Health, Social Consciousness concentrating on sustainable programs which help to create upward social and economic mobility. Underpinning TAFF Foundation objectives is the aim to foster harmony and positive interdependence amongst societal agents. TAFF launched a first of its kind Vocational Training Institute (TAFF-VTI) targeted to train underprivileged women



ADVOCACY & NATIONAL ENGAGEMENTS

in the Domestic Help industry (Cooking and Housekeeping) as well as Elderly Care providers and then help them with employment opportunities using our network of partners that includes local and multinational organizations.

Launch of Thardeep Microfinance Foundation

On Saturday 21st October 2017, Mr. Zohair Ashir, Ms. Simi Kamal and Ms. Sanaa Baxamoosa attended the launch ceremony of the Thardeep Microfinance Foundation, currently headed by Dr. Sono Khangharani.

Women's Capacity Building Session

On October 17th, 2017 Hisaar Foundation in collaboration with CAP-Net UNDP held a capacity building session for women in water conservation at the Aurat Foundation Lahore office. The women participants present represented a wide network of government, private and NGOs water organizations and were delighted to be presented with an opportunity to lend their expertise towards sustainable water management. Ms. Simi Kamal, Chair academic committee Hisaar Foundation briefed the participants on the concept of woman and water networks (WWN) and the integral role that women play as water managers on all platforms. She further shared experiences from the Karachi WWN. Ms. Seema Tahir, CEO Airwaves media stressed on the need for media engagement in water sector to bring water issues to the forefront. The participants were presented modules on and trained on Water Conservation and Better Management of Water. Water saving guidelines, formulated by Hisaar Foundation were distributed among the participants where each pledged to further disseminate the guidelines and spreads the practice of water conservation.

Following the training session, Ms. Simi Kamal formally launched the WWN Lahore with the participants present forming the initial members of the network. Aurat Foundation was nominated as the headquarter of WWN Lahore and Ms. Farwa Tassaduq research and communication manager, FACES Pakistan was nominated as the network manager for Lahore

and the next meeting of the network is scheduled tentatively for 5th December.



Meeting with the Governor

On 6th October 2017, Hisaar Foundation chairperson, Mr. Zohair Ashir and board governor Mr. Ashraf Kapadia met with Governor of Sindh Mr. Mohammad Zubair to discuss the upcoming third Karachi International Water Conference – Future of Water organized by Hisaar Foundation. The governor fully supported the foundations initiatives and commitment to developing strategic solutions and cooperation to build a sustainable water future for Pakistan. Furthermore, the governor confirmed that in his capacity the government will be playing an active role in the conference.

Visit to Nestle Water Plant at Port Qasim

Hisaar Foundation was invited on September 28, 2016 to visit Nestle's water plant facility at Port Qasim. This was a part of a series of visits organized by Nestle to show the ways in which Nestle is engaged in water efficient and environment friendly practices at its bottling plant.

Meeting on Recommendations for Pakistan's National Water Policy Framework with Stakeholders

On February 23, 2017, the Pakistan Economic Forum, a group representing federal secretaries (retired & serving) hosted a seminar at

ADVOCACY & NATIONAL ENGAGEMENTS

Islamabad Club. The single agenda was the presentation of the “Recommendations for Pakistanis Water Policy Framework” by Ms. Simi Kamal and Mr. Zohair Ashir representing Hisaar Foundation. The session lasted more than 2 hours of intense engagement and frank exchange of views. The PEF members greatly appreciated the efforts of HF Think Tank and praised the quality of the report and the vision given in the recommendations. Two of the members Mr. Mirza Hamid Hasan and Mr. Fazlullah Qureshi who are closely associated with water issues especially pointed out that it is remarkable that a citizens voluntary body has come out with a document of national importance within such a short time and minimal expenditures whereas the government and donors have spent huge amounts of money with limited output. The group also gave valuable inputs and recommendations for further improving the recommendations and pledged their support for disseminating this document.

Conference on Emerging Trends in Earth and Environmental Sciences

The Center for Earth and Environmental Sciences at the University of Lahore, Punjab organized the first international conference on the emerging trends in earth and environmental sciences on March 9 and 10, 2017. Ms. Simi Kamal, Chair Academic Committee participated on behalf of Hisaar Foundation and presented the recommendations for Pakistan’s national water policy framework to the conference participants.

Consultation and Launch of Report on Contested Waters: The Sub-national Scale Water Conflict in Pakistan

Hisaar Foundation, in collaboration with the Shaheed Zulfikar Ali Bhutto Institute of Science



and Technology, held the launch of United States Institute of Peace (USIP) report on “Contested Waters: The Sub-National Scale Water Conflict in Pakistan” on Thursday April 13, 2017. The report was authored by Dr. Daanish Mustafa (King’s College, London) member Hisaar Foundation Think Tank, Dr. Giovanna Gioli (International Institute for Integrated Mountain Development), Mr. Milan Karner (King’s College, London) and Mr. Imran Khan (London School of Economics). Dr. Mustafa and Dr. Gioli presented the report to relevant stakeholders and the discussion that followed was moderated by Zohair Ashir, Chairperson Hisaar Foundation. The event was attended by representatives of Irrigation Department Sindh, Sindh Irrigation and Drainage Authority (SIDA), Sindh Municipal Services Delivery Program (MSDP), Sindh Growers Alliance, USAID, Aga Khan University (AKU), NED University, SZABIST, Journalists

ADVOCACY & NATIONAL ENGAGEMENTS

and Hisaar Foundation Governors and Staff. In total 33 people attended the event.

Earth and Water Day Seminar at Karachi University

Hisaar Foundation staff members participated in an Earth Day seminar on environmental and climate literacy held at Karachi University (KU) on Saturday April 5, 2017, which was jointly organized by the Geography department and Institute of Space Technology (IST). The seminar focused on subjects related to the challenges posed by climate change, increasing water shortage and man-made factors contributing to environmental degradation. The objective of the seminar was in general to create general awareness among people regarding the importance of environment along with related global and local issues and to suggest ways to conserve nature and reduce pollution to make our home (Earth) a better place to live. The seminar concluded with a tree plantation activity at the campus and also included pH testing of water samples brought by participants from their homes.

ICESCR Report

In January 2017, the Coalition for Alternate Report on the International Covenant on Economic, Social and Cultural Rights (ICESCR) approached Hisaar Foundation to join hands with other participation organizations to develop and draft a shadow report on the state of economic, social and cultural rights in Pakistan. Hisaar Foundation contributed to the report by writing the chapter on the "right to water". The coalition comprising of 16 other organizations presented the shadow report to the UN committee on economic, social and cultural rights in June 2017 through a web link. The online session also included a question and answer session with the representatives from the Pakistan government. Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation participated on behalf of Hisaar Foundation.

Consultation on SDGs

In October 2016, Hisaar Foundation participated in an interactive consultation hosted by Shehri-Citizens for a Better Environment,

on SDG's with a particular focus on orienting women groups on what the SDG's No.5 is, its context and background, how it will roll out, the institutions and stakeholders involved and the relevance and importance for Pakistan.

Briefing Session with Stakeholders

As part of the two day meeting of the Think Tank on the Rational Use of Water, a briefing session and consultative meeting was held on 27th February 2016 with selected partners, stakeholders and supporters of Hisaar Foundation from the academia, media, public and private sectors. The participants were briefed about the Water Economy of Pakistan, the Water Policy of Pakistan and were given an overview of Hisaar Foundation's strategic initiatives of the Think Tank and the Universities for Water Network. Members of the Think Tank, Simi Kamal, Dr. Salman Shah and Dr. Daanish Mustafa addressed the participants and gave presentations on Water Policy and Water Economy of Pakistan. Participants included Meher Noshirwani- Governor Hisaar Foundation, Aman ul Haque-Head of Engro Foundation, Mr. Ehsan Malik, CEO of Pakistan Business Council, Shamsuddin Shaikh- CEO of Sindh Engro Coal Mining, Pervaz Ghias-CEO of Indus Motors and Anwar H. Siddiqui-Chairman Standing Committee of Engineering FPCCI, among others.

Consultative Conference on expected Heat Wave in Karachi at PMA House

Hisaar Foundation participated in a consultative conference jointly organized by Faroozan and Pakistan Medical Association. This was the third and last meeting in a series of consultative meetings to discuss and formulate concrete suggestions to combat the impending heat wave in Karachi in the summer months with its peak in the month of Ramazan. Ms. Sanaa Baxamoosa, General Manager Hisaar Foundation represented Hisaar Foundation at the consultation. She was also invited to speak about the importance of World Water Day and shed some light on the UN Water theme of "Water and Jobs" for the year 2016.

ADVOCACY & NATIONAL ENGAGEMENTS

World Water Day Seminar at MUET

Ms Saleha Atif and Ms Rida Baqai represented Hisaar Foundation at the World Water Day Seminar at Mehran University of Engineering and Technology, Jamshoro, organized by U.S Pakistan Center for Advanced Studies in Water (USPCAS-W) to highlight the importance and judicious use of water. Renowned water experts including Dr. M. Aslam Chaudhry, Mr. M. Idrees Rajput, Mr. Shah Mahmood Nawaz and Mr. Naseer Memon gave presentations on the occasion and shared information regarding the prevailing water situation, globally and in Pakistan. At the end of the seminar Hisaar Foundation's Public Service Messages about water conservation were played for the audience.



OICCI Seminar on Climate Change

Hisaar Foundation Chairperson, Mr. Zohair Ashir presented at an OICCI networking session and seminar on Wednesday 13th April 2016. The focus of the seminar was Climate Change and the Environment. The objective of the event was to increase engagement between OICCI members and stakeholders in the water, climate change and environment sectors. Several NGOs including Hisaar Foundation presented their work and contributions to the society and shared their experiences, success stories and bid for future programs.



USAID Willingness to Pay Survey in Jacobabad Launch Ceremony

Hisaar Foundation was invited to the Launch Ceremony of the Willingness to Pay (WTP) Survey conducted under the "Community Mobilization for Improved WASH Services and Hygiene Behaviors in Jacobabad City" project on 28 April 2016 at Movenpick Hotel in Karachi. This project was a part of the United Nations Human Settlements Programme (UN-Habitat) in Pakistan and the objective of the launch was to disseminate the findings of the WTP Survey to relevant stakeholders and support the Government of Sindh in taking plausible steps to ensure the effective running of the Municipal Services Delivery Program (MSDP). Ms. Sanaa Baxamoosa and Ms. Rida Baqai participated in the event and contributed to the discussion on willingness to pay for WASH services on behalf of Hisaar Foundation.



INTERNATIONAL ENGAGEMENTS



STOCKHOLM INTERNATIONAL WATER WEEK 2016

Water scarcity is not only a problem for arid rural areas, it is also very much a reality in large cities around the world. In the three-part seminar on Urban Water- Water for sustainable and inclusive cities: how to induce change?, a series of case studies and panel discussions shed light on water issues in an urban context. During the closing session, Simi Kamal

from the Karachi Water Partnership painted a very clear picture of the problem when she said that in some parts of her hometown in Pakistan, with a population of 24 million, a litre of water costs more than a litre of oil, due to poor supply. In terms of solutions, much of the closing discussion centred upon the need for proper leadership and inclusive partnerships including all stakeholders. "Then again, the only really important stakeholders here are in fact future generations," Célia Blauel, deputy mayor of Paris, said.



BUDAPEST WATER SUMMIT 2016

The Budapest Water Summit 2016 is organised by the Hungarian Government in cooperation with the World Water Council, under the patronage of János Áder, President of Hungary. The mission of the Summit aims that instead of conflicts and global risks water shall be the source of cooperation, peace and development for all the countries committed to sustainable development. To this end, participants of the Budapest Water Summit 2016 will lay down their proposed solutions for the relevant international bodies by adopting the "Budapest Statement 2016".

INTERNATIONAL ENGAGEMENTS

Mr. Zohair Ashir, Chairman, Hisaar Foundation and Ms. Simi Kamal, Senior Group Head Grants, PPAF and Chair Academic Committee, Hisaar Foundation were invited to attend the Budapest Water Summit 2016 which was held between 28 and 30 November 2016 in Budapest.



ANNUAL CAP-NET NETWORK MANAGERS AND PARTNERS MEETING

The 4th Latin America & Caribbean Targeted Regional Workshop for Global Environment Facility (GEF) International Waters (IW) Projects was jointly organized by the International Waters Learning Exchange and Resource Network (IW:LEARN), a GEF project implemented by the United Nations Development Programme (UNDP) & United Nations Environment Program (UNEP), and executed by the Intergovernmental Oceanographic Commission of UNESCO, together with partners UNDP Cap-Net and the Spanish Agency for International Development Cooperation (AEID). The workshop was centered on the themes of private sector partnership building, conjunctive management water and gender mainstreaming. The workshop was tied up with the 14th Annual Cap-Net Network Managers Meeting from the 9th to 13th October at Montevideo, Uruguay. Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation and

Country Network Manager, Cap-Net Pakistan participated in this workshop on behalf of Cap-Net Pakistan. The meeting centered around fostering “interaction” amongst and within Cap-Net networks and was attended by network managers from all over the globe.

Cap-Net UNDP’s Annual Partners and Network Managers Meeting was organized together with UNEP, GEMS Water, and IW:LEARN. The focus for the 13th annual meeting was “Towards implementation of the Sustainable Development Goal on Water (SDG 6)”, and the meeting was arranged in the UNEP facilities in Nairobi, Kenya, between 8th and 11th November. Mr. Zohair Ashir, Chairperson, Hisaar Foundation attended the 13th annual meeting on behalf of Hisaar Foundation.

SOUTH ASIA REGIONAL KNOWLEDGE FORUM 2017

Ms. Simi Kamal was invited as a panelist for the 2017 South Asia Regional Knowledge Forum on Water, Energy and Food organized by the Australian Department of Foreign Affairs and Trade which was held in Kathmandu from 20-21 September.

The Knowledge Forum was an opportunity for researchers, policymakers and practitioners working across three major river basins of South Asia – the Indus, Brahmaputra and Ganges – to address interdependencies of the water, energy and food sectors. Across Bangladesh, Bhutan, India, Nepal and Pakistan, the river basins are home to 300 million people. Water, energy and food insecurity is increasing due to population growth and rising competition for scarce water resources between agriculture, energy, industry and the environment. The Knowledge Forum provided an opportunity to identify new ideas and approaches to manage these challenges.

Australia is contributing its expertise and experience in integrated water resources management, sustainable agriculture and renewable energy.

THIRD KARACHI INTERNATIONAL WATER CONFERENCE: THE FUTURE OF WATER

INTRODUCTION

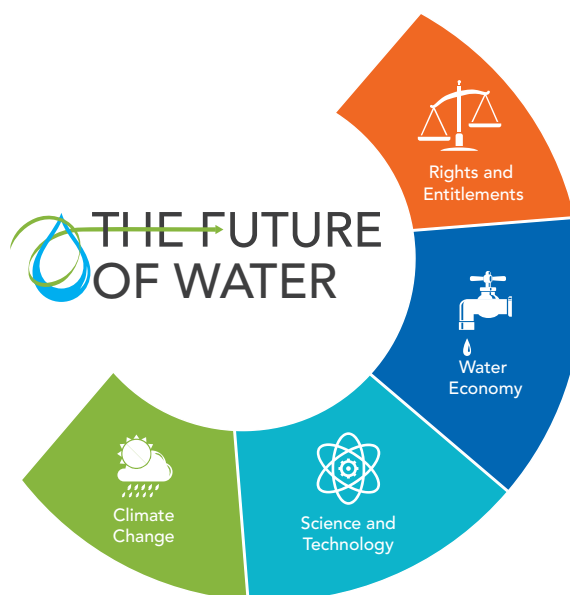
Hisaar Foundation – a foundation for water, food and livelihood security, holds an international water conference every 2 years.

As Pakistan's pioneer organization in the water sector, in recent years Hisaar Foundation has combined the work of its Think Tank and its Universities for Water Network with grassroots programs and projects that test solutions and involve people. The Think Tank and Universities for Water Network (UWN) emerged from Hisaar Foundation's first Karachi International Conference in 2013, entitled Water Cooperation in Action – From the Global to the Grassroots. Both these initiatives have produced a significant body of work in the previous 4 years, which now shape the water debate in Pakistan. That first conference was attended by over 700 national, regional, and international delegates.

The second Karachi International Water Conference in 2015 was on Securing Sustainable Water for All – Inclusion, Innovation and Integration. This conference called for the development of recommendations for national water policy, which unfortunately the government of Pakistan has failed to produce to date. However, Hisaar Foundation's Think Tank on the Rational Use of Water has developed such a policy framework. Dubbed as the citizens' water policy by the water professionals in Pakistan, the Recommendations for Pakistan's National Water Policy Framework were launched in 2016, and have spurred healthy debate, inputs to formal water policy process, as well as provincial water policy work by citizen groups.

The third conference will push boundaries further and look at water in the changed geopolitics of today at international and regional levels and re-envision the future of water for the world and for Pakistan.

This conference is attended in large numbers by participants from Pakistan, South Asia and across the globe. Since this conference is about the future of water, we will be mainstreaming many cross-cutting themes with special focus on youth, the inclusion of women, marginalized groups and poor communities.



THIRD KARACHI INTERNATIONAL WATER CONFERENCE: THE FUTURE OF WATER

SCOPE

The scope of the Third Karachi International Water Conference (KIWC) reflects the theme of the post 2015 development agenda which is focused on achieving the “Sustainable Development Goals” by 2030. All three dimensions of sustainable development- economic, social and environmental- have to be explored and a coordinated, integrated, equitable and inclusive plan of action needs to be set into motion.

By sharing research findings, technical solutions, innovations, inclusive models, examples of integration and experiences at different levels, policy level dialogue on the future of water can be initiated for the integrated management of water resources, especially in the context of exploring new markets and opportunities to realize the true value of the water economy and activating it to achieve the SDG’s by 2030.

AIMS & OBJECTIVES

1. Bring water to forefront of people’s minds
2. In depth debate and lobbying on citizen’s water policy developed by TT
3. Water advocacy
4. Scale and variety of water (ideas, interventions, innovations etc)
5. Reach out to all critical stakeholders including government, academia, civil society, media, business and corporate sector, urban and rural communities, and experts to catalyze the practical implementation of sustainable development goals in terms of water management
6. Identify avenues of integration, collaboration and partnerships in order to realize the potential of the water economy
7. Identify strategies for sharing, promoting and implementing climate action
8. Showcase models and experiences from across the world that display innovative science and technology for water
9. Outcomes
10. Declaration of KIWC 2017
11. Announcement of Panjwani-Hisaar Water Institute at NED University
12. Provincial water policies for Sindh and Balochistan
13. Expansion of membership of Universities for Water Network



THIRD KARACHI INTERNATIONAL WATER CONFERENCE: THE FUTURE OF WATER

FINDING SOLUTIONS

Given the fast changing global political realities, the future of water is at risk. Leading water experts and eminent personalities at this conference will look at the future of water with all its dissonance, discord and despair but also the infinite possibilities of co-existence and sharing of new solutions to provide answers to the challenges facing us. The conference will address these issues through the prism of Rights and Entitlements, Water Economy, Science and Technology and Climate Change.



Rights & Entitlements

Sustainable development cannot be fully attained without peaceful, just and inclusive societies that provide equal access to all its peoples. The Human Rights to Water and Sanitation entitles everyone to safe, sufficient, acceptable, physically accessible and affordable water and sanitation services which we are yet to achieve. Impact of external pressures along with increasing scarcity and competition for its use makes water governance and management critical. The situation calls for establishing credible institutions, policies and legal systems that can facilitate development that mainstreams gender, is pro-poor in its approach, and sustainable in its implementation.



Water Economy

Water is a key driver for social and economic growth and contributes to the well-being of the people. It plays an integral role in productive processes and contributes significantly to agriculture, industry, energy, transport and economic sectors. Building climate resilient economies that can develop and grow in face of water scarcity will require improved methods of allocating scarce water resources across sectors to higher-value uses. Smart water policies and well-planned investments from all sectors can yield significant benefits in improving welfare and enhancing economic growth.



Science and Technology

Sustainable development on the water front requires creation and adoption of new water saving technologies, incentives, education, and awareness. Integration of scientific knowledge with technical developments will bring about efficiency in water management systems and also improvements in water quality and better access to quality data. Leveraging the technological advancements in media also plays an important role in communicating the water crisis and harnessing the potential of water as a connector between research, policy and action. The spread of information and communications technology has great potential to accelerate human progress, to bridge the digital divide and to develop knowledge societies, as does scientific and technological innovation.



Climate Change

Climate change and sustainable development are arguably two of the most interconnected and significant challenges facing the world today. Failure to tackle and cope with climate change will have devastating effects on development. Development processes must factor in climate mitigation, adaptation and resilience mechanisms at all levels of policy, action and implementation. Climate action must be integrated within the broader development policies and strategies because the impact of climate variability and vulnerability to climate change will greatly hinder the ability of countries to achieve the sustainable development goals by 2030.

DONORS AND PARTNERS FOR 2016 & 2017

Hisaar Foundation would like to express gratitude to its corporate donors, partner organizations and philanthropic individuals who helped us in our mission to develop low-cost solutions and promote appropriate policies and technologies for water resources development and conservation in Pakistan. The following is a list of our donors who helped us in 2016 and 2017:

AASA Consulting	Lasbela University of Agriculture, Water and Marine Sciences (LUAWMS)
Aitchison College, Lahore	National Bank of Pakistan (NBP)
Alif Design	National Volunteer Program (NVP)
Akbar Associates Group	NED University of Engineering and Technology (NEDUET)
Aurat Foundation	Nestle Pakistan
CapNet UNDP	News One & TV One
Center of Excellence in Journalism (CEJ) – Institute of Business Administration (IBA), Karachi	Old Associates of Kinnaird Society (OAKS) Karachi Chapter
Comprehensive Disaster Response Services (CDRS)	Pak Oman Investment Company
English Biscuit Manufacturers (EBM)	Philanthropic Individuals
Engro Foundation	RAASTA Development Consultants
Faysal Bank Limited	SAFWCO
Global Water Partnership	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)
Golden Harvest	Sind Medical Stores Pakistan
Hope Uplift Foundation	Sindh Irrigation and Drainage Authority (SIDA)
Indus Society for Human and Environment Development (ISHED)	Soneri Bank Limited
K- Electric	Thardeep Microfinance Foundation
Lahore University of Management Sciences (LUMS)	University of Karachi
Thardeep Rural Development Programme (TRDP)	University of Peshawar
The Asia Foundation (TAF)	Women and Water Networks (WWNs)
UNICEF	WWF Pakistan

ACKNOWLEDGEMENTS

Over the last 15 years, Hisaar Foundation has been relentlessly working towards establishing itself at the forefront of the water sector. The Foundation is committed to working towards water security in the context of efficient management, conservation and climate change. Over the last two years, Hisaar Foundation continued to concentrate on innovations and affordable solutions in Thar and Karachi. Hisaar Foundation established new partnerships with like-minded organizations working towards water security. Hisaar Foundation has firmly established itself as a thought leader in the water sector with the development and dissemination of the Recommendations for Pakistan's National Water Policy Framework and its subsequent recognition and increasing acceptance among the key stakeholders.

Let me take this opportunity and acknowledge Ms. Fareeha Shah, who was instrumental in developing the first draft of this report. Thank you also goes to Mr. Danish Khan who

has designed and put everything together and made it possible to bring this report out on time. I must acknowledge the hard work of Ms. Simi Kamal for her input and efforts in editing the report, and Mr. Zohair Ashir, for general oversight. I recognize the role of the Governors of Hisaar Foundation who encouraged us to produce this report. I would also like to acknowledge my colleagues, Ms. Daniya Khalid and Ms. Kausar Hashmi, their contribution to this report is laudable. I would also like to acknowledge my colleague, Mr. Ahmed Palwa who maintained good records and made documentation of projects that much easier. I would also like to thank the dedicated staff of Hisaar Foundation, Mr. Nadeem Siddiqui, Mr. Farooq Khan and Mr. Mohammad Imran whose dedication and commitment is admirable. In the end, I would like to acknowledge the support and contributions of our partners and donors.



SANAA BAXAMOOSA

General Manager



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House No F-11/1, Block 8, Clifton 75600
Karachi, Pakistan

Tel : (92-21) 35874547, 35879724

Fax : (92 21) 35865305

Email : info@hisaar.org

Web : www.hisaar.org



/hisaarfoundation



@HisaarF