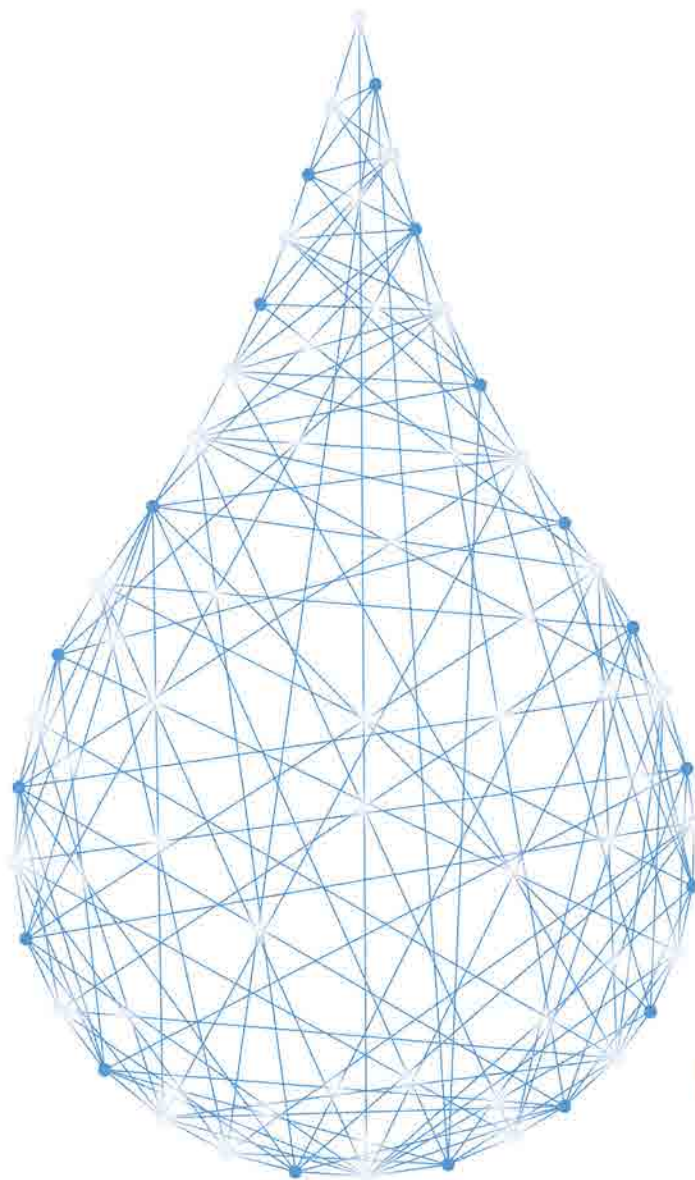
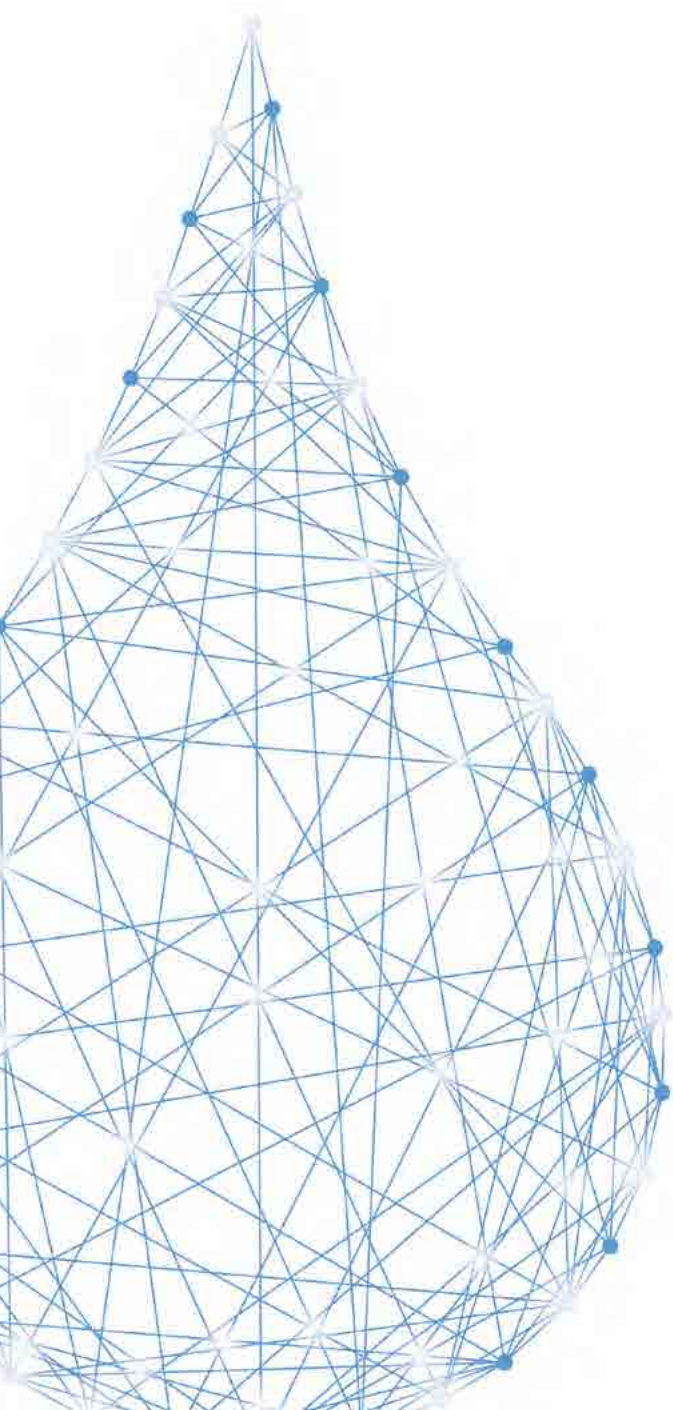


WATER
AGENDA
IN ACTION



Hisaar Foundation
2018-2019

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Note from Chairperson

Hisaar Foundation continues its steady progress towards achieving water, food and livelihood security in Pakistan, by focusing on Programs & Projects, Universities for Water Network and the Think Tank on Rational Use of Water. Apart from these areas, Hisaar Foundation has now embarked on its most ambitious project, the establishment of the Panjwani-Hisaar Water Institute.

In terms of Programs & Projects, we continue to deploy point solutions, including construction or rehabilitation of wells, installation of hand-pumps, building water storage facilities, provision of water filtration plants and water coolers, and deployment of solar panels for powering water pumps, lightbulbs and fans in far flung villages. We have also adopted 4 villages for comprehensive support. Apart from these solutions, preparation for the 4th Karachi International Water Conference are well underway, and we look forward to welcoming you to this biennial event on November 26-27, 2019.

The Universities for Water Network now has a membership of 14 universities all over Pakistan. This network facilitates knowledge sharing and cooperation among the universities and bridges the gap between theory and practice. It has also developed a database of water related resources in Pakistan. Going forward, the Universities for Water Network will move to the Panjwani-Hisaar Water Institute.

Hisaar Foundation's Think Tank on the Rational Use of Water is on its way to becoming the premier think tank on the subject. It provides a national forum for discourse on this critical issue of national importance.

It has published several papers, including the "Framework of Implementation for the National Water Policy". The framework was presented to the President of Pakistan in a meeting with members of the Think Tank, and the paper was subsequently submitted to the Ministry of Water. The strength of the Think Tank lies in its diversity, and its practical demonstration that consensus can be built on any issue, even one as contentious as water.

While the above approach of resolving specific problems is necessary to address short-term issues, the severe water crisis being faced by Pakistan is a multifaceted and extremely complex issue, and we need to fundamentally change the way we plan, manage, conserve and value water. This change can only be brought about by producing water professionals needed in government, agriculture, industry and all forms of economic activity. More importantly, we need to change the mindset of the general public to be more conscious of the value of water. The establishment of the Panjwani-Hisaar Water Institute is a critical step in this direction.

The Governor of Sindh did the groundbreaking for the institute in May 2018, and the first short course was conducted in August 2019. We expect that the Panjwani-Hisaar Water Institute will be fully operational by January 2021.

The primary sponsors of the institute are Panjwani Charitable Foundation which is providing a generous seed donation, and the institutional experience of setting up a leading-edge institute, NED University of Engineering and Technology, that has provided land and

Note from Chairperson

the necessary legal and academic umbrella for setting up the institute, and Hisaar Foundation, which brings extensive expertise in building consensus and partnerships, and for taking the intellectual underpinning for the rational use of water to its logical conclusion. The Government of Pakistan, under its Karachi Package, has also pledged funds for the operation of the institute.

We would like to thank all our sponsors and donors whose support was key to the achievements of Hisaar Foundation. In particular, the continued support by Panjwani Charitable Foundation, Engro Foundation, Old Associates of Kinnaird Society, United Bank Limited, Golden Harvest and many others have sustained Hisaar Foundation's efforts for water, food and livelihood security.

Lastly, we must acknowledge the untiring efforts of the Board of Governors and Council Members who have been instrumental in guiding Hisaar Foundation.

Ashraf Kapadia
Chairperson



Overview (2018-2019)



This report covers the activities undertaken by Hissar Foundation during the period from January 2018 to June 2019. Globally, during this time, we have seen further deterioration of the environment and new global movements have taken hold – Fridays for Future by the children of the world, Extinction Rebellion, New Green Deal and many others. Locally, Pakistan has embarked on ambitious tree planting and re-charging campaigns, but the correct focus on water as the key to managing the threats to life and the recognition of the 'water' economy as the driver of Pakistan's economy is yet to be adopted by the government.

We are also pleased to report that this period has been an exciting time of growth, for Hissar Foundation. Hissar Foundation's work in the last 18 months has been to link both with these global movements, and link with the government at different levels, connecting to the real problems that people are coping with at the grassroots.

Hissar Foundation (a foundation for water, food and livelihood security) is a not-for-profit, voluntary citizens' body set up in 2003 (under section 42 of the Companies Ordinance 1984) and completes seventeen years at the end of this year. Hissar 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. Hissar Foundation is a thought leader that

strives to inspire action and demonstrate solutions in the water sector. Committed to SDG 6 on water, the Foundation inspires action through a 4 pronged approach: encouraging innovation and research in the water sector through the first of its kind Panjwani-Hissar Water Institute; assisting the government on policy and strategy through the The Think Tank on the Rational Use of Water ; sharing of knowledge and linking research and practice through the Universities for Water Network and demonstrating solutions and actions through its Programmes and Projects that are relevant to the water-food-livelihood nexus.

Over the last seventeen years, Hissar Foundation with its work on water, food and livelihood security has emerged as a thought leader and innovator in the water sector of Pakistan. Hissar Foundation has established itself as a premier organization on water with its strategic initiatives such as the Panjwani-Hissar Water Institute, 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 Panjwani-Hissar Water Institute will be the first of its kind interdisciplinary and multi-disciplinary research institute dedicated to water. 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

Overview (2018-2019)

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 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 17 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 rain-water 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 CapNet (International Network for Capacity Development in Sustainable Water Resources Management), Global Water Partnership, International Water Management Institute, and South Asian Consortium for Interdisciplinary Water Resources Studies (SaciWATERS), as well as banks, corporate entities, civil society organizations and grassroots NGOs in Pakistan.



Since January 2018, Hisaar Foundation has made steady progress and development towards realizing the goal of establishing the Panjwani-Hisaar Water Institute at NED University. In addition, the completion and dissemination of the Implementation Framework of the National Water Policy developed by members of the Think Tank on the Rational Use of Water is a critical development and a significant contribution from Hisaar Foundation to assist the government of Pakistan in formulating its policies on water. Hisaar Foundation also made significant strides in the work undertaken in areas of Programme/Project Implementation. With the 4th Karachi International Water Conference entitled "Water-Energy-Food Nexus: Agenda for the 21st Century" to be scheduled in November this year and the commencement of construction of the Water Institute, Hisaar Foundation is set for a major leap forward in the coming years in becoming recognized as a premier organization for water advocacy, policy and programme formulation and research.

Hisaar Foundation at a glance

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

Vision

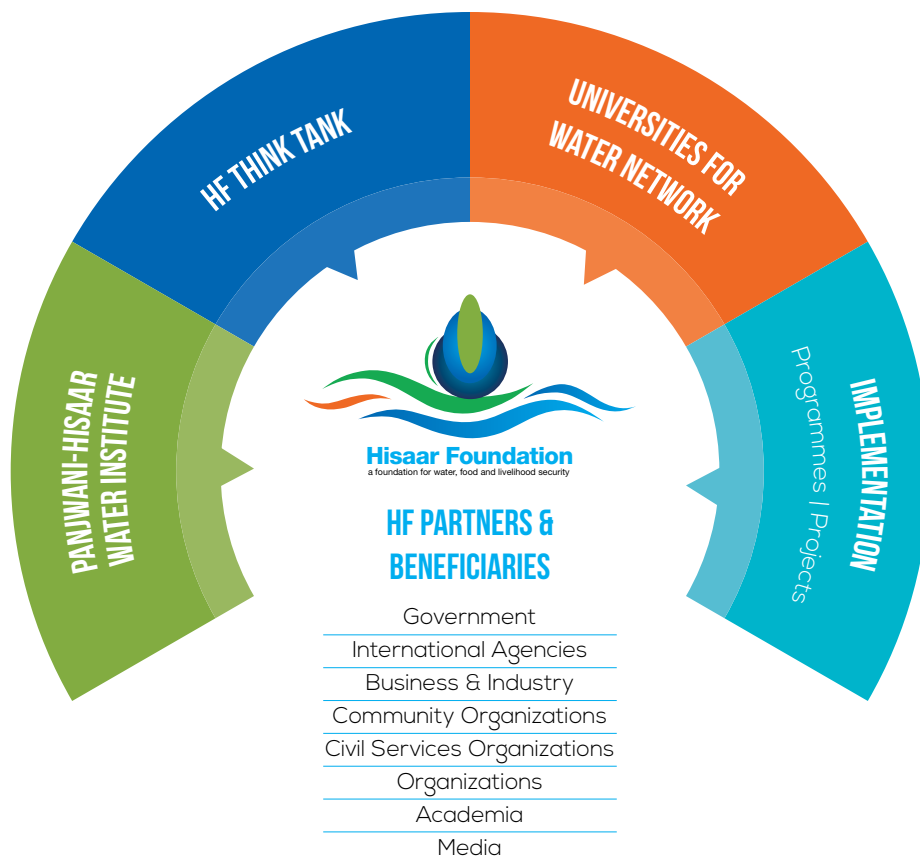
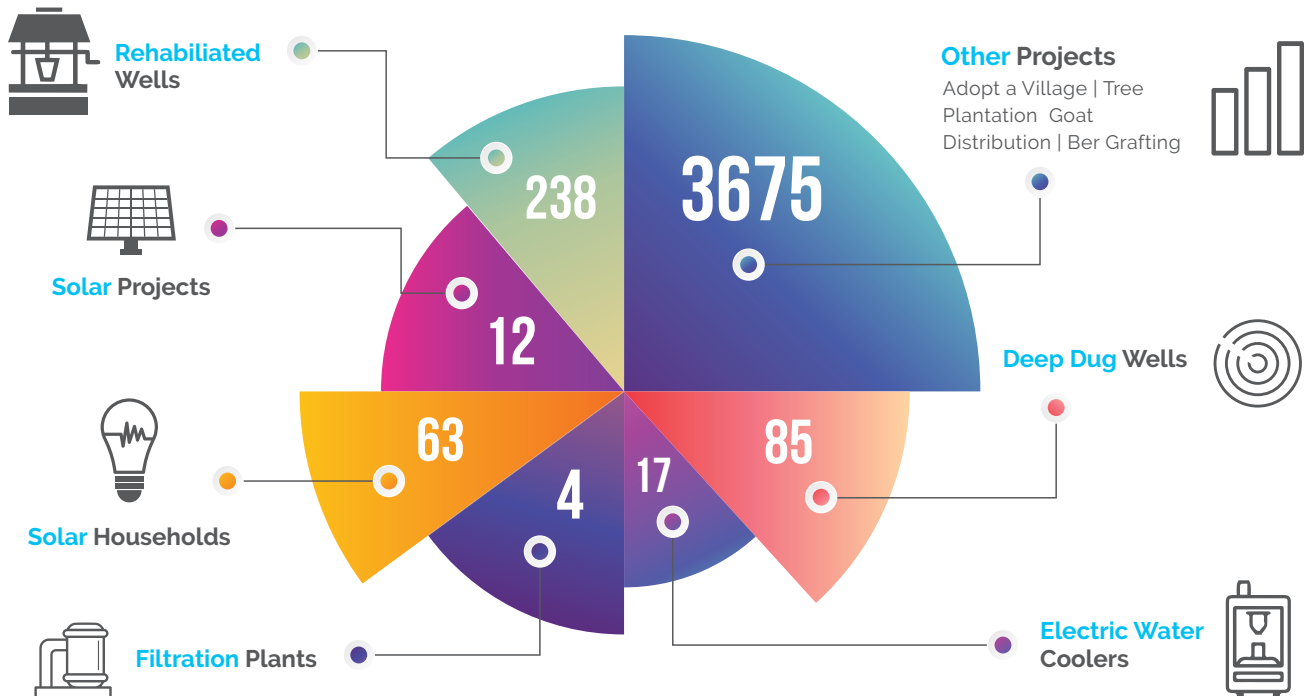
To balance environment with development through innovation

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.

Hisaar Foundation at a glance

Projects On Ground



| Governance

Hisaar Foundation is governed by its members and an elected Board of Governors. At present, there are 34 Council Members and an elected Board of 10 Governors. Hisaar Foundation is primarily driven by the vision and leadership of its Board Members and they play a critical role in steering the strategic direction of the Foundation.

Ashraf Kapadia

Chairperson



Ashraf Kapadia is a very senior Management and IT Consultant with 48 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 joined Hisaar Foundation as a Council Member in August 2014 and is currently the Chairperson of its Board of Governors. 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), and member of the Board of Directors of MIT Enterprise Forum of Pakistan.

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.



| Governance



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.



| Governance

Meher Marker Noshirwani



Ms Meher M Noshirwani with Masters in Sociology from the University of Essex, United Kingdom. As a sociologist with 27 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).

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.

Nadira Panjwani



| Governance

Saira Shaikh

Saira Shaikh is a Counselling Therapist by training and a social activist by practice. She is actively involved with Save the Children – a concerned citizen's initiative aimed at uplifting the street children. She runs an accelerated learning program for street children under Lilly Bridge within a school premises allocated by the government. Saira Shaikh is actively involved in civic causes and believes that water is one of the biggest challenges facing Pakistan today.



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.

| Governance

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.

Zohair Ashir is associated with Hisaar Foundation since 2006. He has served in the capacity of Chairperson of the Foundation from 2012 to 2018 and continues as a Governor on the Board of Hisaar Foundation. He was one of the founding members of the Karachi Water International Conference and has served as Chair of its Steering Committee since its inception. He is also one of the Founders of the HF Think Tank for Rational Use of Water. He was also elected to the Board of the Panjwan-Hisaar Water Institute which is expected to formally open in 2021.

He is a Management Consultant and Professional Hospital Administrator. Currently, he is the Chief Executive and Director of AASA Consulting, a Social Policy and Human Resource Development firm. He was a Senior Partner with Grant Thornton Consulting from 2014 to 2018. He has over 30 years of professional experience with specialization in Strategic Management, Social Policy, Water 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 on many projects 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. He completed his post-graduation in Hospital Management with University of Minnesota and BBA from University of Memphis.

Zohair Ashir



Simi Kamal

Founder Chairperson



Educated at the University of Cambridge, Simi Kamal has 40 years of experience in water sectors, environment, climate change, food security, women's empowerment, social development and poverty alleviation.

She is the Head of Programs at Pakistan Poverty Alleviation Fund (PPAF), where water interventions across Pakistan are an integral part of her work. She is the founder of Hisaar Foundation, and was its Board Chair for three terms. She currently convenes the Think Tank on the Rational Use of Water. Ms Kamal is on the Board of the International Water Management Institute (IWMI) and served for nine years on the Technical Committee of the Global Water Partnership (GWP). Currently she is part of a team that is establishing the Panjwani Hisaar Water Institute (PHWI) at the NED University in Karachi, Pakistan. A substantial proportion of her work is at the intersection of women and water, where she is the moving spirit behind Women and Water Networks. She served on the National Commission on the Status of Women in Pakistan for a three-year term and is co-chair of the international Every Women Treaty campaign to end violence against women. She is the recipient of several international and national awards.

Panjwani-Hisaar Water Institute

The establishment of the Panjwani-Hisaar Water Institute (PHWI) at NED University was announced at the opening plenary of the 3rd Karachi International Water Conference: The Future of Water. Panjwani Charitable Foundation have generously agreed to provide the seed money for the institute, NED University will generously donate the land (approximately 2000 square yards or 0.7 acres) for the institute and Hisaar Foundation will do the fund-raising for the project and oversee the construction of the building of PHWI. The vision of PHWI is to be an institute of higher learning with focus on interdisciplinary and multidisciplinary

Arcop Associates Pvt. Ltd. have been selected as the architects for the initial design phase and construction. The groundbreaking ceremony of the Panjwani-Hisaar Water Institute was held on 4th May 2018 at NED University and Mr. Muhammad Zubair, Governor of Sindh, attended as Chief Guest.

At the beginning of the year (2019), Hisaar Foundation embarked upon its fund raising activities for the Panjwani-Hisaar Water Institute at NED University. Following the ground breaking ceremony of the Institute in May 2018 and the finalization of the tripartite



studies and behavior change to safeguard and secure Pakistan's water resources. Its mission is to prepare the knowledge base, skill base, mindset and intellectual underpinning for robust research, dissemination, public awareness, policy and action.

agreement for the establishment of the Institute, Hisaar Foundation spent considerable time towards fundraising and developing the the Institute.

A large portion of Pakistan's population does not have access to safe drinking water and sanitation services. Irrigation and drinking water systems are mired with inequities, access and entitlement issues. Significant disparities exist between the rich and the poor. Water entitlements are yet to be established and land rights are still considered a proxy to water rights. Water re-

Panjwani-Hisaar Water Institute

mainly highly undervalued when used commercially. The management of water is Pakistan's biggest development and governance challenge.

In face of these challenges, there is an acute lack of capacity and trained person power. We need integrated management, water stewardship, restoration of water ecosystems, waste water management and development of water markets. A transformative vision with



a set of specialized skills development is required to harness the potential of Pakistan's water economy.

To achieve this, the Panjwani-Hisaar Water Institute (PHWI) is designed to be Pakistan's leading water institute for the 21st century. A collaborate venture by Hisaar Foundation, Panjwani Charitable Foundation and NED University of Engineering and Technology, this cutting-edge institute is placed at the NED University – the university originally created to support the emerging irrigation infrastructure of Pakistan. PHWI will address all aspects of water by integrating engineering, social sciences and economic streams and produce water professionals and specialists trained to handle the whole range of water issues. The focus is on developing linkages throughout the water value chain for employment.

The Institute will offer academic programs and re-



search opportunities that will greatly benefit business, industry, agriculture sector, government & society by producing scientists, engineers, infrastructure professionals, water repair and maintenance specialists, water sociologist and psychologist, water ecologists and hydrologists, all of whom are urgently required to meet the mounting challenges faced by Pakistan. The institute offers international experience with direct linkages with universities and partnerships in Pakistan and abroad and access to scholarships and research funds.

PHWI will house the Universities for Water Network where universities across Pakistan collaborate on innovative research and partnership oriented solutions on water issues. Courses are already underway with its first course on "Water Law" conducted during August-September 2019.

The Institute will have 5 laboratories which will be fully equipped with the latest technologies related to water. Many of the labs will be available for the first time in Pakistan. These laboratories are:

- Water Ecology & Remediation
- Coastal & Riverine Hydraulics
- Water Psychology & Behavioural Sciences
- Total Water Quality
- Water Data Analytics & Modelling

The total cost of the project is PKR 1.155 billion including PKR 500 million for startup and equipment being provided by the government, PKR 255 million cost of the land provided by NED University and PKR 400

Panjwani-Hisaar Water Institute

million for construction of the building, and PKR 50 million committed by Panjwani Charitable Foundation for construction, out of which PKR 20 million has already been provided.

Hisaar Foundation has built the intellectual underpinning for rational use of water for 16 years and is taking the lead in putting up the building and establishing international linkages. In its initial phases of establishment, PHWI already has an Advisor, an Acting Director and support staff in place with further hiring to be conducted as per regular procedures of NED. NED is covering all the running and operational costs of the institute.



PHWI will be managed and overseen autonomously by a 7 member, independent Executive Board comprising of the following members:

- Dr. Sarosh Lodi (Patron)
- Ms. Nadira Panjwani (PCF representative)
- Dr. Iqbal Chaudhry (PCF representative)
- Mr. Zohair Ashir (HF representative)
- Ms. Simi Kamal (Advisor, PHWI)
- Dr. Noman Ahmed (Acting Director, PHWI)
- Mr. Syed Ghazanfar Hussain (NED representative)

The sponsors of PHWI have agreed that upon completion of the buildings and structures and other facilities



of PHWI, all of these will be donated by Hisaar Foundation to NED.

PHWI will train and produce a cascade of water professionals at different levels who will manage the existing and emerging water challenges.

What will PHWI do?

- Provide innovative and modern solutions to Pakistan's water problems
- Produce water technicians and professional managers Conduct research
- Make links between research and action on the ground

The Institute will offer academic programs and research opportunities that will specifically cater to the needs of water sectors

- Agricultural Sectors
- Business Sectors
- Municipal Needs
- Government Sector
- Households and Individuals
- Conservation of Water Bodies

Panjwani-Hisaar Water Institute



PHWI GOALS

- Develop innovative programs & disciplines in an integrated manner to enable effective transfer of knowledge through dissemination
- Provide a sustainable platform for new research & testing of ideas and practices (researchers, academics, thinkers, communities, public representatives, practitioners and students)
- Accelerate improvements and innovations in the water sector for collaboration between experts, universities , think tanks and other institutions
- Use the interdisciplinary & multidisciplinary approach to fulfill SDGs commitments



- Produce water professionals and specialists and develop linkages throughout the water value chain for employment
- Develop coping strategies for climate crisis impact by promoting better water resources management, stewardship, and adaptation

PHWI WILL OFFER

- Innovative water education, research and training
- Integration of engineering, economics and social sciences
- Post-graduate program, short courses and diplomas
- Trained water professionals to cater to needs at different levels
- Cross fertilization of academia, research, agriculture, industry and business practices

Think Tank on the Rational Use of Water

Vision

Premier 'think tank' on rational use of water.

Mission

Water is the most valuable endowment of people of Pakistan and the mission 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 for the prosperity of Pakistan.



Goals

- 01** National forum for discourse on water
- 02** Develop & present water policy alternatives for Pakistan
- 03** Bring together creative and diverse minds for water solutions
- 04** Carry out advocacy among all stakeholders
- 05** Coordinate with UWN

Think Tank on the Rational Use of Water



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 the first Karachi International Water Conference in 2013. 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 held launch sessions of this

report in Karachi, Hyderabad, Lahore, Islamabad and Peshawar.

With the approval of the National Water Policy of Pakistan in April 2018, the Think Tank members decided to develop an implementation roadmap for the National Water Policy and submit it as an aid to the government.



The 12th meeting of the Think Tank was held on 19th and 20th of August 2018 in Karachi. Hisaar Foundation Think Tank on Rational Use of Water hosted a policy dialogue on "Is Activism an Alternate for Water Policy" with selected stakeholders from the water sector. The keynote was given by Dr. Arif Alvi, President Nominate who spoke about PTI's solution to Karachi's crisis of water, sewage and garbage. The distinguished panel included Advocate Shahab Usto, Suleman Chandio, Former Managing Director KWSB and Member Task Force Sindh Water Commission, Dr. Fateh Marri, Head of World Bank funded Water Sector Improvement Project, Government of Sindh, Mr. Samar Ali Khan, former MPA and Ms. Simi Kamal, Founder Chairperson of Hisaar Foundation. The panel was moderated by Dr. Daanish Mustafa, Professor of Geography, King's College, London. The dialogue "Is Water Activism an Alternative for Water Policy?" aimed to take stock of the recent developments in the water sector and explore different perspectives on policymaking, advocacy and activism.

Think Tank on the Rational Use of Water

The dialogue “Is Water Activism an Alternative for Water Policy?” aimed to take stock of the recent developments in the water sector and explore different perspectives on policymaking, advocacy and activism.



Mr. Usto talked about water justice and said that as per his understanding, water justice is achieved in a society or a community where everybody has equitable and just access to clean water. He mentioned that in 1994 the Supreme Court of Pakistan (SC) declared the right to have unpolluted water as a fundamental right. Therefore, it is a right to have access to clean drinking water, and this right has been subsumed in Article 9 of the Constitution of Pakistan, which promises to protect the life and liberty of the people of Pakistan. He said that without clean water, we cannot conceive of life. From that perspective, the greatest injustice committed against the people of this province and country is that they have been provided with unclean, adulterated, and contaminated water, he continued. The water that most of us are consuming, he said to the audience, contains highly poisonous substances like arsenic, fluorides, nitrates, etc. which pose health and well-being hazards.

He elaborated that being a lawyer, he filed a petition to the Supreme Court (SC). The SC understood the gravity of the matter and upon his request constituted a committee or commission headed by a sitting judge of the High Court (HC). The objective of the commission was to find out whether the people of Sindh are being provided with clean water and whether the Sindh Environmental Protection Agency is performing its functions.

He explained that the distinguishing feature or the success of the methodology adopted by the Hon. Justice Mohammad Iqbal Kalhoro, member of the commission, is that he did not sit in the chamber and perform bureaucratic procedures but actually visited the water bodies in different cities, towns, and villages to assess the water situation. The investigation revealed that there are 800 points where freshwater bodies were being contaminated by the sewage without any treatment.

Dr. Fateh Marri talked about the water challenges in Sindh. He said that the population is growing rapidly, while urbanization is also increasing, hence, there are conflicting water demands. He explained this by saying that earlier the focus with regards to water was on agriculture and irrigation, but now water is also required for urban populations and to meet the needs of urban life as well.

He added that the location of Sindh also poses a challenge. Sindh is located in the downstream and with sea levels rising, water is encroaching on our lands. Pollution is exacerbating the situation. In addition to that, he mentioned that the infrastructure is also aging, and that we have to face the challenge of global warming as well. Overall, he added, the annual cost of environmental degradation is 6% of our GDP.

Mr. Suleman Chandio started by thanking Shahab Usto for bringing the matter to the attention of the Supreme Court of Pakistan. He said that the situation was indeed very dire and everyone was suffering. Mr. Chandio

Think Tank on the Rational Use of Water

told the audience that he was in the commission with Justice Kalhor, and that they worked day and night for three months to fulfill their objective.

He explained the water filtration process to the audience, and then said that during their field visits, they found crucial infrastructure and equipment to be dysfunctional, with vegetation grown in them sometimes. As a result, raw water was bypassed into the reservoir



and it was fed to the people without any removal of pathogens and bacteria. This was shown to the local MNA. He recounted accounts of severe corruption, and said that he knows only about the investigation and nothing about the implementation.

He also said that everyone seems to be confused about the responsibility of who should develop the water policy. He added that after the 18th Amendment of the Constitution of Pakistan and the resultant devolution of power and responsibilities, it is the responsibility of the provinces to formulate their own policies. As regards the federal water policy, he said that it is incomplete, and unnecessarily mentions things that are not in the domain of the federal government, but of the provincial government.

Lastly, with regards to infrastructure, he said that it was understood that sewage disposal network was to be laid down alongside the irrigation network so that the seepage could be disposed of safely. Instead of that, it was dumped in the Manchar Lake, which is a freshwater lake. The lake is now severely polluted.

Samar Ali Khan started by sharing his feeling of encouragement by seeing the attendees from various walks of life. He said that water and pollution are two major issues of the century. Water is the government's responsibility but they have not prioritized it as such. He expressed his gratitude for the presence of Dr. Arif Alvi, in this regard, and shared that it is a moment of pride that Dr. Alvi is taking the issue with concern.

He said that since Karachi became his constituency, water has been the number one issue. He said that

Think Tank on the Rational Use of Water

the federal government has the potential to intervene since the city and provincial governments have not done much, and have not prioritized people.

He shared that they had FIRs filed in their name for fighting for water. He and his team, he continued, has had to attend multiple court hearings and have been pushed around a lot for water. He mentioned that they have done all the planning and homework to tackle the water issue. All that is left to do is the implementation. He added that the intent and the will are there, only the obstacles have to be removed.

He shared that when he was a part of the assembly, his main agenda was to get drinking water run in taps in places like Hijrat Colony, Hazara Colony etc. He said that a plan was made but could not be implemented because of the (Cantonment Board Clifton (CBC), and



expressed hope that the new government will make the CBC be a better representative of the people by letting people come forward.

The policy framework was presented by Simi Kamal, Convener, Think Tank on Rational Use of Water and

former member, GWP TEC. She said that the recommendations focus on five main areas for further action. These include improving water access for the poor and landless, financing the urban and rural water value chain, safeguarding the Indus Basin and its infrastructure, improving water institutions and their management and governance, and finally building a base for science, technology, and social aspects of water.

The 13th meeting of the Think Tank was held on 24th and 25th January 2019 in Islamabad. In January, members of the Hisaar Foundation Think Tank on the Rational Use of Water met with the President of Pakistan, Dr. Arif Alvi and key members of the Ministry of Water Resources to discuss the critical issue of sustainable water resources management in Pakistan. Deliberations were made on water conservation, the implementation of the recently approved national water policy of Pakistan and initiatives that the government can undertake to develop long term, systematic and planned solutions to alleviate the existing and emerging water challenges of the country. The President and the members of Hisaar Foundation discussed issues of data and mismanagement of water resources with the Water Ministry. The President and the Secretary of Ministry of Water Resources were also presented with an implementation framework to ease the operationalization of the national water policy as a means of capacity development of the ministry.

During this meeting, the President emphasized that water preservation and conservation is the need of the hour. He underscored that we will have to develop a comprehensive & dynamic water policy to meet the future needs of the country. He added that for this purpose comprehensive data must be collected, related and analyzed in order to make right decisions. The President underlined that we must utilize modern research and technologies for the conservation of water. He also stated that all universities and relevant departments must promote and provide base for further research on this issue. He stressed that there is a dire need to enhance public motivation and awareness

Think Tank on the Rational Use of Water

through media to preserve water.

The following day, Hisaar Foundation organized a consultative dialogue with selected stakeholders on “The Implementation Framework of the National Water Policy” to elicit their views and perspectives. The consultation brought together about 40 selected stakeholders to discuss the six strategic priorities laid out in the national water policy along with their actions, responsible institutions and timelines. After this consultation, the feedback was incorporated into the existing framework and then submitted to the government of Pakistan as assistance and a contribution to the water sector from Hisaar Foundation. The framework document was formally handed over to the Chairman, Federal Flood Commission, Mr. Ahmad Kamal, who is

instead of just one. In the internal session on the first day, it was decided that HF Think Tank would develop a national water conservation plan for Pakistan, which the Prime Minister had requested during his meeting with Karachi Transformation Committee. The other 3



the nominated custodian of the national water policy for the government of Pakistan.

The 14th meeting of the Think Tank on the Rational Use of Water was held on 19th and 20th April 2019 at Karachi. The meeting was conducted in a very different way and had multiple sessions with stakeholders



sessions were all external. The first session was on transformation of KWSB's governance and the session was attended by Managing Director KWSB, Mr. Asadullah Khan, as a key speaker. The second session was a face-off session on “is water domain of the provinces only?” between Jamal Ansari (TT member) who was against the motion and Rabel Akhund (lawyer) who was for the motion.

The third session was with members of the Karachi Transformation Committee (Samar Ali Khan, Firdaus Naqvi, Adnan Asdar and Ruhail Mohammad) and special guests (Atif Bajwa and Kashif Shah) to discuss how to raise financing for ideas/projects being proposed as a part of the KTC plan.

Think Tank on the Rational Use of Water

- Over the year, the main outcomes that have emerged from the Think Tank Meeting are as follows:
- Paper on Urban Water Management – A Transformation Strategy for KWSB's Governance
- Development of the Implementation Framework for Pakistan's National Water Policy



- Establishment of a Working Group for development of Water Conservation Plan for Pakistan
- Formal submission of Implementation Framework for Pakistan's National Water Policy submitted to Federal Flood Commission as HF's contribution to the Government of Pakistan

The next major output of the Think Tank will be the development of a National Conservation Strategy/Plan, at the behest of the current government.

The Think Tank on the Rational Use of Water comprises of 9 members that are experts in their various backgrounds and sectors

Universities for Water Network



The Universities for Water Network (UWN) currently comprises of 14 member universities across Pakistan. The UWN has developed a compendium of water all 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 consolidate the intellectual underpinnings for dealing with Pakistan's water challenges now and in the future.

The 7th meeting of the Universities for Water Network was held at NED University. Dr. Pervaiz Amir participated as Academic Advisor and Tofiq Pasha Mooraj as



the Youth Advisor. In addition, representatives of Karachi University, Habib University, Mehran University participated along with representatives from Institute of Business Management and IBA Karachi Urban Lab who are potentially new members of the network. The meeting included a field trip to KWSB Dhabeji pumping station.

The 8th meeting of the UWN was initially supposed to be held in April in Islamabad at Quaid-e-Azam University. However, most of the UWN members were involved and engaged in the Balochistan Water Programme that was hosted by Pakistan Poverty Alleviation Fund at the time, therefore it was mutually decided to postpone the 8th meeting to a later date.

Going forward, it has been decided to house the Universities for Water Network inside the Panjwani-Hisaar Water Institute, with the NED University of Engineering and Technology taking the lead on this initiative.

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.

Committee, Hisaar Foundation spoke about the importance of World Water Day in raising awareness on “water for all” and stressed on individual responsibility of the citizens towards responsible use of water. She said that taking measures on an individual level to a decision-making level, it is imperative to tackle the issue of water scarcity with a holistic approach to water resources amongst all the stakeholders.



Partnering with Government

World Water Day – Pani Banao Initiative

On Friday, 22nd March Hisaar Foundation celebrated the World Water Day 2019 “Leaving No One Behind” at the Governor House Karachi with the launch of its pilot initiative “Pani Banao”. As summers are fast approaching, the water supply problems at Karachi are expected to exacerbate. Addressing the audience at the governor house, Ms. Simi Kamal, Chair Academic



Karachi Transformation Committee member, Mr. Samar Ali Khan, spoke next, on the importance of water conservation and impact the changing climate has had on

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Karachi. He urged the government to expand the water conservation and efficiency plans to be adopted by all local government offices and institutions at their buildings.

On tackling Karachi's water issues Mr. Zohair Ashir, Governor Hisaar Foundation and member Think Tank on Rational Use of Water, stressed that water conservation is a big part of solving our problems. He presented on water harvesting "Paani Banao" initiative as a suitable and easy to do solution for Karachi. The primary focus of this initiative involves collection and harvesting of atmospheric moisture generated by the cooling action of air conditioners. Mr. Ashir shared estimates



that during the peak humidity season from an air conditioner of 2 tons, 20 litres of water can be harvested within 8 hours of its functioning, which can then be utilized for purposes such as irrigating the gardens, mopping of windows, outdoor furniture, vehicles, etc.

Paani Banao targets 1 million air conditioners in Karachi within the next one year, including government buildings, businesses, factories, houses and shopping complexes, etc. It is estimated to yield 5 Million Gallons per Day in Karachi, which is equivalent to total water requirement for areas such as DHA. A small demo of this initiative, installed at the Governor House Karachi and water harvested for a day from a few air conditioners was shown to the audience.

Speaking on the occasion the chief guest, Mr. Imran Ismail, Governor Sindh, stressed on the importance of collective citizen action to address environment issues. He lauded the efforts of Hisaar Foundation and offered his support to the Paani Banao initiative by proposing the Governor House building to be transformed into a full water recycling building. Towards the end, Mr. Ashraf Kapadia, Chairperson, Hisaar Foundation thanked the guests and the audience.

Over a hundred people attended the event including prominent politicians, industrialists, local government representatives and officials, students, citizens and media representatives.

Partnering with Civil Society

Nexus Matters – Institutionalizing the Water, Energy and Food Narrative in Sindh Province

The Australian Government and The Asia Foundation, in collaboration with Hisaar Foundation, organised a seminar on 'Nexus Matters – Institutionalising the Water-Energy-Food Narrative in Sindh Province'. This event was held on 10th July 2018 at the Movenpick Hotel in Karachi. The event was attended by more than a 100 civil society partners, policymakers, academia, and media representatives to stress on the nexus



Creating Partnerships

thinking as a way forward for socioeconomic and sustainable development in Pakistan.

During the seminar, Mr. Ashraf Kapadia, Chairperson, Hisaar Foundation in his welcome address introduced the work of Hisaar Foundation and elaborated on its three major streams of work: Programs and Projects; Think Tank on the Rational Use of Water and the Universities for Water Network. Mr. David Preston, the First Secretary Development Cooperation at the Australian High Commission, Pakistan delivered the opening remarks and introduced the concept of the Water Energy Food Nexus in the global context. In his keynote address, Mr. Nisar Memon – Chairman, Water Environment Forum Pakistan, presented on the Global Perspective on WEF Nexus and explained that to tackle today's challenges this nexus approach is required to better understand and analyse the interactions between the natural environment and human activities, and to work towards a more coordinated management and use of all three resources across sectors and

scales. Ms. Meher Marker Noshirwani, Governor, Hisaar Foundation, further elaborated the relevance of the nexus approach in Pakistan's context. Mr. Farid Alam, Director of Programs, The Asia Foundation and Dr. Abdul Majeed, Water, Energy and Climate Change Expert, International Union for Conservation of Nature (IUCN) presented on findings of the political economy analysis of the Indus Basin and patterns of water distribution.

Following the presentations, For institutionalizing the WEF Narrative in Sindh province, a panel discussion moderated by Mr. Zohair Ashir – Governor Hisaar Foundation aimed to identify the priority areas for engaging relevant stakeholders around the nexus narrative in Sindh. Dr. Fateh Marri – Chief Economist and Project Coordinator, Planning and Development Department, Government of Sindh spoke about Sindh's readiness on meeting the nexus sectors and how the provincial government departments can effectively collaborate to find solutions and the need for applied research to achieve these. Ms. Afia Salam, Environmental Journal-



Creating Partnerships

ist stressed on the role of media in promoting WEF and that media has to ensure that a well-researched narrative is promoted. Mr. Syed Mahmood Nawaz Shah – Vice President, Sindh Abadgar Board expressed that the small scale farmers have to be empowered with understanding of the WEF nexus and the farmer organizations have to be revolutionized in order to achieve that. Mr. Favad Soomro – Director, Engro Foundation was of the view that the private sector has the potential for finding solutions through unique and innovative products and through increasing market access and investment in the critical sectors of water, energy, and food. Dr. Mahmood Akhtar Cheema – Country Representative, International Union for Conservation of Nature (IUCN) added that for adoption of the WEF approach in Pakistan, the global best practices have to be adapted to the local context which requires investment in WEF research and development capacity of our universities.

Wrapping up the seminar, Mr. Farid Alam stressed that 'Nexus Thinking' is the way forward for socio-economic and sustainable development in Pakistan. He announced formation of six core groups at national and provincial levels including Gilgit Baltistan for forming an action plan around the WEF nexus. The first provincial core group formed at Sindh will act as the ultimate civil society oversight group, and will act as a collaborative space for bringing different stakeholders together for improved governance and integrated management of WEF resources at the provincial level.

Following the conclusion of the public seminar, a closed meeting was conducted with key stakeholders that formed the core member of the Nexus group in Sindh. As a result, the following outcomes were achieved:

Formation of a core group at the provincial level around the nexus narrative

An action plan developed for the core group to meet within the next week or so to develop TORs and strategy for the next one year to work towards the objectives



Sub-national Perspectives on National Water Policy – 20th November 2018

Civil Society Coalition of Climate Change (CSCCC) with the support of the World Bank, Planning and Development Department, Sindh, and Hisaar Foundation organized a civil society dialogue on 'Sub-national Perspectives on National Water Policy' on 20th November 2018. The dialogue was designed to bring together stakeholders from relevant government departments, civil society, academia, private sector and media to develop a set of recommendations for the Provincial Master Plan as stipulated in the National Water Policy to achieve provincial targets. The high-level plenaries were followed by breakout sessions in which the participants discussed the issues of Governance and Institutions Mechanisms, Domestic Water Usage and Issues and Transboundary Water Issue/Water Storage.

The opening panel consisted of Aisha Khan, Chief Executive, CSCCC who delivered the welcome remarks. This was followed keynote speaker Dr. Ishrat Hussain who is the current Advisor to the Prime Minister on Institutional Reforms. Special remarks were given by Dr. Naeem uz Zafar, Chief Economist, P&D Department. The Plenary consisted of Dr. Mahmood Ahmad, LUMS, Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation and Mr. Shah Murad Aliani, former Director IUCN. On the occasion, Ms. Baxamoosa presented the Recommendations for Pakistan's National Water Policy Framework developed by the Think Tank and made a strong case for mainstreaming women in the implementation of water policies.

Creating Partnerships



Women and Water Networks

Members of Women and Water Networks were engaged throughout the year 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. Hisaar Foundation has collaborated with Aurat Foundation to jointly promote Women and Water Networks and their activities.

Engagement with Youth

CodeBlue Water Conference

Hisaar Foundation was invited to attend the 'CodeBlue: Exploring Indigenous Solutions to the Water Crisis' on the 9th of March at Habib University, Karachi. Code-Blue is an initiative by young students that aims to emphasize on using science, technology and engineering, and particularly relying on indigenous resources when discussing the water issues in Pakistan. Daniya Khalid co-lead the breakout session on 'Creating Awareness on Conservation' for the event.

Seminar on World Water Day

Hisaar Foundation was invited by the Department of Geography at Karachi University to attend a Seminar on World Water Day (22nd March, 2019). The theme of this year's event was 'Leaving No one Behind'. The Youth Advisor for, and a Governor of, Hisaar Foundation, Mr. Tofiq Pasha Mooraj, gave a presentation on the 'Role of Youth in Water Resources Management.'



Developing Solutions



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.



Old Associates of Kinnaird Society (OAKS), Karachi Chapter, and Hisaar Foundation continued to collaborate on the construction of deep dug-wells in Taluka Chachro and Taluka Nagarparkar of District Tharparkar. This year marks the fifth year of collaboration with OAKS and Hisaar Foundation is grateful for the support received from OAKS and looks forward to continued collaboration.

During the period from January 2018 to June 2019, Hisaar Foundation constructed 25 new wells, rehabilitated 90 existing wells, installed 7 solar powered wells and bores and installed 8 hand-pumps to improve water access and water security in various parts of Tharparkar District. Hisaar Foundation also installed solar panels for 55 households in 4 different villages

Developing Solutions

of Tharparkar. In Karachi, Hisaar Foundation installed 1 water filtration plant at National Institute of Child Health, Jinnah Hospital, in November 2018 and provided water coolers to 9 different government schools in Karachi.

In January 2018, Hisaar Foundation installed its first solar bore for drinking water in Village Hashim Ji Dhani, Taluka Mithi, District Tharparkar with the generous support of a philanthropist. The depth of the bore was about 330 feet and it improved access to water for approximately 70 households (550 people).

A second solar bore for drinking water was installed in June 2018 at Village Heelario Chara, Union Council Sobhiar, Taluka Diplo with the support of Golden Harvest, a regular donor institution of Hisaar Foundation.

In September 2018, Hisaar Foundation installed 33 solar household units in Village Dhabhi Khyber. This was followed by installing solar panels on an existing well in Dhabhi Khyber in December 2018. The Indus Society for Humanitarian and Environmental Development (ISHED) donated funds to Hisaar Foundation to install a solar powered bore to provide drinking water in Pillori Village.



In January 2019, Hisaar Foundation installed a solar bore with a water storage tank in Village Pillori located in Union Council Sobhiar in Taluka Diplo. This solar bore for drinking water serves 30 households with a

population of approximately 222 men, women and children. Village Pillori is approximately at a distance of 35 km away from the taluka headquarter at Mithi on the south side.



In June 2019, Hisaar Foundation completed installation of a new solar deep dug-well with the support of Golden Harvest at Village Heelario Lanjha.

In addition, Hisaar Foundation embarked upon its Adopt A Village programme in 4 villages of Tharparkar, namely, Rohaj and Mithu Paro in May 2018 and Surango and Dhabhi Khyber in September 2018. The abovementioned 'Adopt a Village' projects involved various activities and interventions in varying degrees as described below. 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 installing solar powered deep dug wells or water bores and initiating village development supporting activities that would contribute to the general improvement of the people residing in the village(s).

Developing Solutions

Hisaar Foundation believes that providing water security is the first step. Therefore, the first phase within the Village Development Model focuses on construction of deep dug wells or water bore where the groundwater



is considered to be sweet and also suitable for drinking purposes. The second step is to sustain the communities and help communities to develop resilience and coping mechanisms to overcome their vulnerabilities to drought. The second phase, therefore, focuses on other village support activities that would lead to the general improvement in the lives of the people. As a result, Hisaar Foundation installed 55 solar household units in the four villages mentioned above. Portable solar panel systems provide power for 3 lightbulbs and a fan. Taking advantage of the solar energy, this system allows for houses to benefit from electricity and power

even in off-grid areas. The advantage with the system is that it is very low maintenance and can be easily managed by the village people.

In an effort to promote renewable energy, the Foundation also either installed solar panels on existing wells to enable the villagers to harness solar power and benefit from greater lift capacity, or the Foundation constructed new solar wells for the same purpose.

The conventional method of water supply in Tharparkar district is the dugwell which is believed to be the best method as 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. Fetching water is done mostly by women and children whom then have no time to do other activities in the household or even go to school. By constructing dugwells at nearby locations, Hisaar Foundation strives to improve access to water for communities whom otherwise have to travel large distances to gain access to water. By reducing the distance, fetching time is also considerably reduced and this free time can be utilized to conduct other household activities. Young girls also get more free time to go to school.

Rehabilitation of a well is periodically required during the life of a well to ensure its smooth functioning. Hisaar Foundation undertakes the rehabilitation and repair services for existing wells to make them functional and safe for provision of groundwater to the local community.

During the period January 2018-June 2019, Hisaar Foundation constructed 25 new wells, rehabilitated 90 wells and installed 8 hand-pumps to improve water access and water security in various parts of Tharparkar District.

Hisaar Foundation also installed 1 water filtration plant at National Institute of Child Health, Jinnah Hospital, in November 2018 and provided water coolers to 9 different government schools in Karachi.

Emergency Support



Within the purview of working towards water, food and livelihood security, Hisaar Foundation has always responded to emergencies and natural disasters faced by Pakistan. To date, Hisaar Foundation has developed, launched and delivered 15 relief campaigns responding to earthquakes, floods, droughts and other natural calamities. This year, Hisaar Foundation launched the Thar Emergency Fund 2018 appeal in October – November 2018. This was in response to the drought that had engulfed the Thar region for the last three years. As a result of the Thar Emergency Fund campaign, Hisaar Foundation was able to raise Rs. 1.5 million in cash and kind donations.

Consequently, Hisaar Foundation distributed 178 food packs (comprising of aata, sugar, powdered milk, tea, oil/ghee, spices, rice and mixed lentils) to 12 villages in Tharparkar District. Karachi Grammar School Helpers Society, Golden Harvest and OAKS were the largest contributors of short-term relief interventions in cash and kind, whereas, United Bank Limited made a donation of Rs 1. Million for long term interventions, as a result of which Hisaar Foundation installed 6 hand-pumps, rehabilitated 5 wells and constructed 1 new deep dug-well in various villages. The above interventions were carried out in three separate phases.

Ramazan Appeal 2018-19



In keeping with its mission of providing rehabilitation support and water, food and livelihood security, Hisaar Foundation launched its annual Ramazan Appeal for zakat and donations, to raise funds for the Foundation's school water and sanitation rehabilitation and emergency support programmes. In 2018, the Ramazan Appeals specifically focused on the Foundation's interventions in Karachi, especially within public schools. Hisaar Foundation was able to raise Rs. 1.92 million in donations and zakat which is a significant increase from last year.

In May 2019, the effort was aimed at raising funds for the Foundation's interventions in Tharparkar and government schools of Karachi. The Foundation successfully raised Rs. 1.218 million during 2019 in donations and zakat.

We are most grateful to our small base of committed donors who continue to contribute on a regular basis.



Advocacy & National Engagements

During this period, Hisaar Foundation also continued to organize dialogues and seminars and participated in national dialogues and seminars hosted and conducted by its partners.



Hisaar Foundation at policy seminar on 'Formulation of Sindh Water Policy' – 27th February 2018

Hisaar Foundation participated in Policy seminar held on 27th February 2018 on Formulation of Sindh Water Policy organized by Irrigation department, GoS and SIDA funded by Trocaire, speakers included health minister, chairman of DISA, country director Trocaire and Hisaar Foundation representatives Ms. Kausar Hashmi and Ms. Daniya Khalid who presented the Recommendations for Pakistan's National Water Policy Framework.

World Bank Seminar – 13th March 2018

On 13th March, Mr. Zohair Ashir, Member Hisaar Foundation Think Tank on Rational Use of Water and Former Chairperson was invited to speak on Urban Water Management at an event sponsored by the World Bank. This was an exclusive event for select stakeholders in the water sector and top level officials of the World Bank in the Water, Transport, Solid Waste and Sanitation sectors.



Mr. Ashraf Kapadia, Chairperson Hisaar Foundation and Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation also attended this event.

Hisaar Foundation at 'Sindh Development Dialogue 2018' – 13th March 2018

Hisaar Foundation representatives participated in Sindh Development Dialogue 2018-contextualising the past-envisaging the future, organized by USAID-US Pakistan Center for Advanced Studies in Water at MUET Jamshoro. Speakers included VC of MUET, Dr. Ishrat Hussain, Dr. Kaiser Bengali, Mr. Abrar Kazi, Dr. Rajab Memon, Dr. Bakshal Lashari, Dr. Fateh Mari, Advocate Shahab Usto and Mr. Suleman G Abro.

Showcasing Karachi Water Partnership at WWF session on Citywide Partnership for Sustainable Water Use and Water Stewardship – 20th March 2018

Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation spoke on the occasion. She delivered a pre-

Advocacy & National Engagements



sentation on the Karachi Water Partnership entitled "Sharing for Caring" which was very well received and appreciated by the audience. The city wide partnership session aimed to engage with industrial sector and encourage them to incorporate water efficiency and water stewardship within their business practices.



Water Stewardship for CEOs – 18th April 2018

Hisaar Foundation and Center for Excellence in Responsible Business (CERB) a subsidiary of Pakistan Business Council jointly held a seminar on 18th April 2018 entitled "Water Stewardship for CEOs." The aim of the event was to engage with top level managers and decision makers from amongst PBC member companies and encourage them to adopt water stewardship practices within their businesses.

Celebrating Earth Day – 22nd April 2018

In celebration of Earth Day 2018, Hisaar Foundation set up a stall at the first Urban Forest event held on 22nd April 2018 at the Urban Forest in Clifton. Hisaar Foundation was amongst 3 or 4 other companies/NGOs that were invited to participate. The Urban Forest event was attended by over a hundred people over the course of the day. Hisaar Foundation was able to raise funds as well.

Advocacy & National Engagements

Presentation on National Water Policy: Need of the Hour at Pakistan House – 23rd April 2018

Pakistan House organized a one-day National Conference in Islamabad on the subject of “Pakistan’s Water Security Policy: Famine Threat and Future Challenges.” The event was attended by ambassadors, eminent speakers, policy practitioners, military officials, diplomats, policy analysts, students and members of civil society and media. Ms. Simi Kamal, Founder Chairperson of Hisaar Foundation presented the “Recommendations for Pakistan’s National Water Policy Framework” with its 5 focus areas and 10 goals and elucidated the roles of federal government, provincial government, local government and civil society on the occasion.

stan and opportunities for collaboration. The meeting was facilitated and hosted by Center for Excellence in Responsible Business (CERB) a subsidiary of Pakistan Business Council.



Hisaar Foundation Meeting with Dutch Ambassador – 9th May 2018

Hisaar Foundation Chairperson Mr. Ashraf Kapadia and General Manager, Ms. Sanaa Baxamoosa met with the Dutch Ambassador Her Excellency Ms. Stoios-Braken on 9th May to discuss water related initiatives in Paki-

Hisaar Foundation at ‘Karachi – The Uroos-ul-Bilaad: Water Crisis Management’ – 24th May 2018

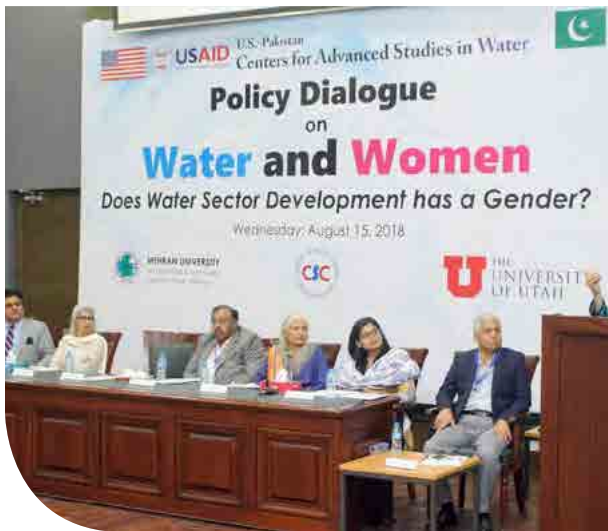
On May, 24th 2018, The Centre for Peace, Security and Developmental Studies at Dadabhoy Institute hosted a roundtable discussion on “Karachi –The Uroos-ul-Bilaad: Water Crisis Management” as the first of several roundtables to be held on the broader theme. Mr. Zohair Ashir, Member Hisaar Foundation Think Tank on the rational Use of water was invited to the occasion and he discussed ‘A Vision for Karachi: Water Conservation and Innovation in the Future.’ He explored the option of grooming individuals for future role as water experts as a viable solution. He expressed that the future of water was dark but manageable as Pakistan still has more water available than other water stressed countries. Its future state depends on the actions of individuals, government, businesses, other stakeholders,

Advocacy & National Engagements

in that order. He stressed on the need for individual initiatives and citizen awareness to tackle the water crisis. The event was attended by members of the academia, experts and policy practitioners.

Hisaar Foundation with Desi Mountaineer – 24th June 2018

Mr. Sa'ad Mohamed also known as Desi Mountaineer offered to be goodwill ambassador for Hisaar Foundation and voluntarily took the message of Hisaar Foundation regarding the importance of water conservation and better water management to new heights as he embarked on a trekking expedition for Gasherbrum II, the 13th highest mountain peak in the world.



Policy Dialogue on Water and Women – 15th August 2018

Hisaar Foundation was invited to present at the Policy Dialogue on Water and Women, organized and hosted by UWN Member, United States-Pakistan Center for Advanced Studies-Water, Mehran University of Engineering and Technology at Jamshoro on 15th August 2018. Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation, gave a presentation on Women and Water in Action: Experiences from the Field. She stat-

ed that women are the primary users and managers of water but that they have little or no control over decision making. She further stated that women are only mentioned once in the National Water Policy and recommended that women should be accepted as a legitimate group to engage with along with other water stakeholders. Finally, she explained Hisaar Foundation's role in forming 'Women and Water Networks' and the work of the Foundation in mainstreaming women in the water sector.

Round Table on Water Scarcity in Pakistan – 29th August 2018

Hisaar Foundation was invited to a Round Table on Water Scarcity in Pakistan by The Federation of Pakistan Chambers of Commerce and Industry (FPCCI). FPCCI is an apex body of trade industry and services, playing dynamic role in the economic and social development of Pakistan. The Research and Policy Division of FPCCI intends to contribute in resolving the issues of economy and society through factual research conclusions and to answer the primary questions of policymaking to contribute its part in progress. The event was held on August 29th 2018 and was organised to discuss the dynamics of water, to investigate, address and discuss personalities, who have a keen observation and are well versed in the associated field. Senior leadership of Hisaar Foundation participated at this event.

Indus Knowledge Forum – 18th September 2018

Hisaar Foundation was invited to the Indus Knowledge Forum on September 18th 2018 in Islamabad. The Knowledge Forum, hosted by the Australian High Commission, is part of the collaboration between Australia and Pakistan on water resource management. The event will bring together the Government of Pakistan representatives with Australian partners and other development organisations. The forum provided an opportunity for partners to explore the needs and opportunities for more integrated approaches on water, food

Advocacy & National Engagements



and energy security in Pakistan. Sanaa Baxamoosa (General Manager) and Simi Kamal (Founder) of Hisaar Foundation, were invited to be featured speakers for this event. Sanaa Baxamoosa gave a presentation on the 'Water-Energy-Food Nexus: Perspectives of the People,' while Simi Kamal was one of the moderators for the Panel Discussion on Working Groups.

Civil Society Dialogue for Localization of SDGs in Sindh – 27th September 2018

Hisaar Foundation attended the 'Civil Society Dialogue for Localization of SDGs in Sindh' event held on 27th September 2018. This event was attended by senior level Government officials from Planning & Development Board and line departments, renowned civil society organisations operating in Sindh. Kausar Hashmi, Manager, Research and Documentation, attended this event on behalf of Hisaar Foundation.

Sub-national Perspectives on National Water Policy – 20th November 2018

Civil Society Coalition of Climate Change (CSCCC) with the support of the World Bank, Planning and Development Department, Sindh, and Hisaar Foundation organized a civil society dialogue on 'Sub-national Perspectives on National Water Policy' on 20th November 2018. The dialogue was designed to bring together stakeholders from relevant government departments, civil society, academia, private sector and media to



Advocacy & National Engagements

develop a set of recommendations for the Provincial Master Plan as stipulated in the National Water Policy to achieve provincial targets. The high-level plenaries were followed by breakout sessions in which the participants discussed the issues of Governance and Institutions Mechanisms, Domestic Water Usage and Issues and Transboundary Water Issue/Water Storage.

The opening panel consisted of Aisha Khan, CE, CSC-CC who delivered the welcome remarks. This was followed by keynote speaker Dr. Ishrat Hussain who is the current Advisor to the Prime Minister on Institutional Reforms. Special remarks were given by Dr. Naeem uz Zafar, Chief Economist, P&D Department. The Plenary consisted of Dr. Mahmood Ahmad, LUMS, Ms. Sanaa Baxamoosa, General Manager, Hisaar Foundation and Mr. Shah Murad Aliani, former Director IUCN. On the occasion, Ms. Baxamoosa presented the Recommendations for Pakistan's National Water Policy Framework developed by the Think Tank and made a strong case for mainstreaming women in the implementation of water policies.



Dialogue on Pakistan's Water Scarcity in the 21st Century – 23rd November 2018

Hisaar Foundation jointly sponsored and organized the 'Dialogue on Pakistan's Water Scarcity in the 21st Century' event with the Karachi Urban Lab (KUL) at IBA on the 23rd of November 2018. Ms. Sanaa Baxamoosa (General Manager of Hisaar Foundation) was a panellist for the panel discussion at the event, where each panellist shared their knowledge on the use of dams, desalination plants and water conservation. Ms. Sanaa Baxamoosa pointed out the importance of bringing into national policy dialogue the role of gender and especially women's role in the management of water. She went on to emphasize the

work the Hisaar Foundation is doing for women and water in Pakistan. Other esteemed panel members were Dr. Noman Ahmed, Dr. Hassan Abbas, and Mr. Faisal Hassan and the dialogue was moderated by Ms. Afia Salam.



Rotary Club of Karachi Metropolitan Luncheon Meeting – 26th February 2019

On Tuesday 26th February, 2019 Zohair Ashir, Governor and Member, Hisaar Foundation Think Tank on Rational Use of Water member spoke at the Rotary Club of Karachi Metropolitan gathering. Mr. Ashir had an interactive dialogue with the members of the club and their guests on water use. He asked the participants for their perspective on water issues and whether it is the problem of the state or is water everyone's problem. The discussion followed covered the much-debated topic of water storage and dams, Karachi's water crisis and residential water use and conservation. The audience appreciated the efforts of Hisaar Foundation and Rotary members presented Mr. Ashir with a memento at the closing.

Pakistan @100-Shaping the Future – 25th March 2019

Simi Kamal, Founding Chairperson of Hisaar Foundation, was invited to be a part of a panel discussion at

Advocacy & National Engagements



the Environmental Sustainability to launch the World Bank report on "Pakistan at 100" organized by the World Bank Group. The event took place at the Marriott Hotel on the 25th of March 2019.

Pakistan Poverty Alleviation Fund – Leaving No One Behind – 10th April 2019

Hisaar Foundation attended the 'Leaving No One Behind' event, which comprised of an orientation session and subsequent consultative workshop on April 10th. The discussion on water with community people is directed to engage the locals by knowing their views to understand current water challenges and what interventions can improve the situation in respective regions of the province. The discussions were carried out with men and women in separate sessions.

Lobbying with Government

Hisaar Foundation continued to engage with government officials and departments at all levels to disseminate its Urban Water Paper and Implementation Framework for Pakistan's National Water Policy. Hisaar Foundation continued to share its policy recommendations to spearhead and catalyse efforts for development of provincial and federal water policies and frameworks. The Foundation also continued to engage with the government to promote its programmes on conservation of water, better management of all water uses and water and sanitation infrastructural rehabil-

itation. As a part of its efforts, Hisaar Foundation developed guidelines on AC water harvesting techniques and also installed AC water harvesting systems covering over 20 air conditioners at the Governor House in Karachi.



Engagement with Media

Hisaar Foundation has a partnership arrangement with the media group – Interflow and Airwaves Media –which has been airing Hisaar Foundation events on TV One and News One as and when required. Think Tank members, Dr. Salman Shah, Dr. Daanish Mustafa and Mr. Khalid Mohtadullah, along with Governors, Mr. Zohair Ashir, Mr. Tofiq Pasha Mooraj, Founding Chairperson, Ms. Simi Kamal and other staff members continued to make appearances on these shows. Hisaar Foundation staff and board members also appeared on television talk shows often to discuss various water issues, along with appearances during Ramazan to appeal for donations.



Advocacy & National Engagements

International Engagements

Network Managers of Cap-Net UNDP had their annual meeting between 5th and 9th of November 2018 in Marrakesh, Morocco. The meeting was supported by IW: Learn and connected with the 9th GEF Biennial International Waters Conference (IWC9) that took place on 5–8 November in the same location. We had in total 27 participants from Cap-Net Networks and secretari-

news of these plans, had discussions and made also a SWOT analysis about this change. The second day started with the results of SWOT analysis. Then Themba Gumbo, Director of Cap-Net UNDP, presented new initiatives for 2019 and informed Network Managers about new training materials. During the day participants heard some latest information from Cap-Net secretariat, including work plans 2019, MELP, Virtual Campus and Communication.



at, as well as from UNDP and Global Water Partnership (GWP). CapNet Pakistan was represented by Ahmad Rafay Alam, a Council Member and Think Tank Member of Hisaar Foundation. The first day of the meeting was dedicated to the plans of changing the host of Cap-Net UNDP from UNOPS to GWP. Participants heard latest

Junior Expert Trainee Programme in Hungary

As an outcome of the 3rd biannual Karachi International Water Conference (KIWC), a junior expert exchange program was initiated between Wein János Foundation, Budapest Water Works (Pvt.) Ltd. (BWW) and

Advocacy & National Engagements

Hisaar Foundation to train select young water professionals from Pakistan at BWB Hungary. BWB is the central water utility company in Budapest with 150 years of experience. The company caters to more than 2 million users. BWB has also acquired International

The junior experts visited various operational sites as well as water treatment and recycling facilities. Towards the end of the program both Ms. Farwa and Ms. Shehla submitted an essay and evaluation of the program which proposed, opportunities regarding how



Gold standard for utility providers, due to their outstanding performance in water supply services

This three month (September to December 2018) junior expert exchange program was held in Budapest with the participation of two young Pakistani water professionals Ms. Farwa Hussain and Ms. Shehla Ba-tool, selected by Hisaar Foundation on the basis of their research projects presented in KIWC.

The junior experts were provided exposure to all the departments of BWB where they were made to observe the working mechanisms of not only the front-end technical departments like Water Production and Water Engineering departments but also got to understand how the backend supporting departments contribute to the smooth functioning of the organization.

innovative solutions observed in Hungary could be ac-climated at Pakistan.

Building Linkages with International Water Management Institute

Ms. Simi Kamal, the Founder Chairperson of Hisaar Foundation was nominated to be on the Board of International Water Management Institute in March 2018. This will enable Hisaar Foundation to strengthen its relationship with IWMI and build stronger linkages within the region and globally. The Board Members of IWMI are renowned experts in the global water sector and it is an honor for the Foundation that Ms. Simi Kamal has been nominated and elected to the IWMI Board of Directors.

Engagement with Government



Hisaar Foundation engaged extensively with the government during the period January 2018 to June 2019.

Panjwani-Hisaar Water Institute Ground Breaking Ceremony – 4th May 2018

During the first half of 2018, Mohammad Zubair, the Governor of Sindh was the Chief Guest at the ground-breaking ceremony of the Panjwani-Hisaar Water Institute. Pakistan is facing a water crisis that has an impact on all sectors of its economy and to deal with its challenges there are not enough water professionals in the country. To address this shortage Hisaar Foundation, in collaboration with NED University of Engineering and Technology and Panjwani Charitable Foundation, well known for endowing and setting up educational institutions has launched the first of its kind multidisciplinary Panjwani-Hisaar Water Institute (PHWI). The groundbreaking ceremony of PHWI took place on 4th May 2018 at NED Karachi Campus where the institute will be located. Ms. Nadira Panjwani, Chairperson Panjwani Charitable Foundation, Ms. Simi Kamal, Chair Academic Committee Hisaar Foundation, Dr. Sarosh Hashmat Lodi, Vice chancellor NED University, chancellor NED University and governor Sindh Mr.

Mohammad Zubair and Mr. Ashraf Kapadia, Chairperson Hisaar Foundation. The ceremony was followed by tree plantation by the Governor of Sindh.

Is Activism an Alternate to Water Policy – 19th August 2018

The 12th meeting of the Think Tank was held on 19th and 20th of August 2018 in Karachi. Hisaar Foundation Think Tank on Rational Use of Water hosted a policy dialogue on “Is Activism an Alternate for Water Policy” with selected stakeholders from the water sector. The keynote was given by Dr. Arif Alvi, President Nominate who spoke about PTI's solution to Karachi's crisis of water, sewage and garbage. The distinguished panel included Advocate Shahab Usto, Suleman Chandio, Former Managing Director KWSB and Member Task Force Sindh Water Commission, Dr. Fateh Marri, Head of World Bank funded Water Sector Improvement Project, Government of Sindh, Mr. Samar Ali Khan, former MPA and Ms. Simi Kamal, Founder Chairperson of Hisaar Foundation. The panel was moderated by Dr. Daanish

Engagement with Government

Mustafa, Professor of Geography, King's College, London. The dialogue "Is Water Activism an Alternative for Water Policy?" aimed to take stock of the recent developments in the water sector and explore different perspectives on policymaking, advocacy and activism.



Creating a Water-Secure Pakistan – International Symposium by the Law and Justice Commission of Pakistan – 19th and 20th October 2018

Ashraf Kapadia, current Chairperson and Simi Kamal, Founder Chairperson of Hisaar Foundation, along with several members of the Think Tank on the Rational Use of Water, attended the International Symposium conducted by the Law and Justice Commission of Pakistan on the 19th & 20th of October 2018 in Islamabad. This Symposium had been organised by the LJCP Secretariat under the influence of the Chief Justice of Pakistan, Mr Justice Mian Saqib Nisar, to discuss the issue of scarcity of water in the country. Ms. Simi Kamal gave a list of recommendations on the legal aspects of the Indus Basin Water. Her recommendations included naming a custodian organisation to ensure the integrity of the basin and to improve telemetry for

better implementation of both the Indus Water Treaty and the Water Apportionment Accord. Ms. Simi Kamal and Dr. Pervaiz Amir, Council Members of Hisaar Foundation were also involved in designing the symposium and drafting the declaration at the end.

Meeting with the President and Ministry of Water Resources – 25th January 2019

The 13th meeting of the Think Tank was held on 24th and 25th January 2019 in Islamabad. In January, members of the Hisaar Foundation Think Tank on the Rational Use of Water met with the President of Pakistan, Dr. Arif Alvi and key members of the Ministry of Water Resources to discuss the critical issue of sustainable water resources management in Pakistan. Deliberations were made on water conservation, the implementation of the recently approved national water policy of Pakistan and initiatives that the government can undertake to develop long term, systematic and planned solutions to alleviate the existing and emerging water challenges of the country. The President and the members of Hisaar Foundation discussed issues of data and mismanagement of water resources with the Water Ministry. The President and the Secretary of Ministry of Water Resources were also presented with an implementation framework to ease the operationalization of the national water policy as a means of capacity development of the ministry.



Engagement with Government

During this meeting, the President emphasized that water preservation and conservation is the need of the hour. He underscored that we will have to develop a comprehensive & dynamic water policy to meet the future needs of the country. He added that for this purpose comprehensive data must be collected, related and analyzed in order to make right decisions. The President underlined that we must utilize modern research and technologies for the conservation of water. He also stated that all universities and relevant departments must promote and provide base for further research on this issue. He stressed that there is a dire need to enhance public motivation and awareness through media to preserve water.

Pani Banao – 22nd March 2019

On Friday, 22nd March Hisaar Foundation celebrated the World Water Day 2019 “Leaving No One Behind” at the Governor House Karachi with the launch of its pilot initiative “Pani Banao”. Speaking on the occasion the chief guest, Mr. Imran Ismail, Governor Sindh stressed on the importance of collective citizen action to address environment issues. He lauded the efforts of Hisaar Foundation and offered his support to the Paani Banao initiative by proposing the Governor House building to be transformed into a full water recycling building. Paani Banao targets 1 million air conditioners in Karachi within the next one year, including government buildings, businesses, factories, houses and shopping complexes etc. It is estimated to yield 5 Million Gallons per Day in Karachi which is equivalent to total water requirement for areas such as DHA. A small demo of this initiative, installed at the Governor House Karachi and water harvested for a day from a few air conditioners was shown to the audience. Karachi Transformation Committee member, Mr. Samar Ali Khan also spoke on the importance of water conservation and impact the changing climate has had on Karachi. He urged the government to expand the water conservation and efficiency plans to be adopted by all local government offices and institutions at their buildings.

Apart from the meetings discussed in detail above, several members of the Hisaar Foundation Think Tank on the Rational Use of Water met with representatives of the Government. Ms. Simi Kamal, Ms. Seema Taher Khan and Mr. Zohair Ashir met on several occasions with the Prime Minister Mr. Imran Khan. Zohair Ashir and Simi Kamal also met with Mr. Faisal Vawda, the Minister of Water Resources. Simi Kamal met on several occasions with Mr. Ahmed Kamal, the Chairman of the Federal Flood Commission and the custodian of the Pakistan National Water Policy. Mr. Zohair Ashir, Dr. Sarosh Lodi and Dr. Noman Ahmed, members of the PHWI Core Committee, were invited on the Karachi Transformation Committee by the Governor.



Fourth Karachi International Water Conference



Water·Energy·Food
N E X U S

Agenda for the 21st Century



The Centrality of Water-Energy-Food Nexus

The centrality of the Water, Energy and Food (WEF) Nexus is now recognized as an appropriate analytical tool, a measure for reality check and as a strategy for practical outcomes. The demand for water, energy and food is increasing, driven by a rising global population, rapid urbanization, changing diets and economic growth. Agriculture remains the largest consumer of the world's freshwater resources, and more than one-quarter of the energy used globally is expended on food production and its supply. As the world gears up

to achieve the Sustainable Development Goals (SDGs) by 2030, thinking in terms of the Water-Energy-Food Nexus is the need of the hour.

According to most of the baseline scenarios by 2050 the demand for energy will nearly double while water and food demand will increase by over 50 percent (Future Earth, 2019). When this is combined with major trends of climate and land use change, and the depletion of natural resources, the ability of existing systems to meet growing demands is severely compromised.

Fourth Karachi International Water Conference

This nexus is particularly important for Pakistan given that the country has the world's largest contiguous irrigation system, now beset with climate change, dwindling water supplies, salt deposits and management problems. Pakistan's economy is a 'water economy', where the water-food-energy nexus plays itself out in myriad ways. Yet the theoretical underpinnings of the nexus concept and the tools they provide have not been sufficiently explored or applied. The Fourth Karachi International Water Conference will focus its attention on thematic areas related to the Water-Energy-Food Nexus, discuss the application of this framework and see results from across the world.

The Genesis and Growth of KIWC

The Karachi International Water Conference (KIWC) takes place in Karachi every two years. Over the past six years, it has evolved and attained a position of prominence as a "must attend" major water event in the region. The Conference provides a neutral platform for people from all walks of life to come together and engage in discourse, deliberations and debate a wide variety of water related topics, challenges, issues and solutions from international, regional and Pakistan perspectives. Participants share insights, knowledge, research findings and innovations.

From modest beginnings in 2013, when the first conference was attended by about 700 delegates mostly from Karachi, The conference has grown in size and stature and now elicits interests from far and wide. The Third Karachi International Water Conference was attended by over 1200 delegates from Pakistan, South Asia, Middle East, Europe and North America. From local organizations to multi-nationals, to bilateral and multilateral bodies; prominent personalities in the water sector have attended the previous conferences. We expect the profile of the conference to be raised further with greater involvement of governments and practitioners from energy, renewable energy, agriculture, food and nutrition sectors.

Conference Objectives and Outcomes

The conference aims to bring together the thought leaders, actors and players of the water sector that are working on Water-Energy-Food Nexus and related areas. Major global, regional and national organizations



and their representatives, researchers, professionals, decision makers, business innovators, practitioners, experts, women's groups, youth groups and leaders on WEF Nexus will exchange ideas, foster new thinking, develop innovative solutions and work on the water agenda for the 21st century.

By the end of the conference we expect to see the emergence of a research agenda on WEF nexus, pledges of government and people working together and working relationships connecting developed and developing countries to address our common heritage.

Conference Format

The conference will have a number of sessions with varying formats as below:

Plenary Sessions

Technical Sessions

Fourth Karachi International Water Conference

Panel and Round Table Discussions

Networking

Youth Forum

Gender Mainstreaming

Exhibition

Book Launches

Awards and Competitions

Fireside Chats

Small Group Meetings

Mentoring by Experts

Conference Themes

The Water-Energy-Food nexus will be explored through various lens of valuing water, water governance, water infrastructure and investment, and social inclusion (gender and youth).

Delivering water, energy and food for all in a sustainable and equitable way is one of the major challenges faced by our societies. The Conference will explore these themes and provide the knowledge needed to understand how interactions between water, energy and food are shaped by environmental, economic, social and political changes and how the synergies and trade-offs among them can be better planned and managed.

Valuing Water

Water is arguably the most precious resource on Earth. However this fact is yet to be captured when we begin to value water. The price of water traditionally reflects a limited set of costs to treat and transport water, but the value of water is far greater. From the human rights perspective low and subsidized water prices are essential to ensure that the human right to water is met, however keeping this price for all results in exploitative use, freshwater contamination and, inflicts costs upon

all economic dimensions as well as the environment.

Water underpins all aspects of development as is evident from water being vital to all of the 17 SDGs, its multifaceted usage makes it difficult to quantify its value as different stakeholders conceptualize and describe its values differently yet all of them have a legitimate claim on water and its usage. Therefore it is essential to employ a nexus approach to understand the cross functionality of water in other sectors such as agriculture and energy and negotiate these different ways of valuing water as a finite resource. Valuing water and introducing costs towards misallocation, wastage and pollution of water will encourage effective usage of this scarce resource.

Water Governance

“Water governance refers to the political, social, economic and administrative systems in place that influence water’s use and management. It determines the equity and efficiency in water resource and services allocation and distribution, and balances water use between socio-economic activities and ecosystems.”

Governing water includes formulation of water policies, legislation and establishment of institutions to implement these. Well defined roles and responsibilities of government, civil society and the private sector in water resource management make these policies effective and improve institutional performance. Good water governance is integral for the rest of governance initiatives to succeed, according to World Bank estimates, some regions could see their growth rates fall by as much as 6% of GDP by 2050 as a result of water-related losses in agriculture, health, income, and property and be sent spiraling in a sustained negative growth trap.

Water governance is affected by decisions, by factors outside of the water sector such as agriculture and energy, the supply of water cannot be effectively and sustainably managed unless the complex relationship

Fourth Karachi International Water Conference

between these sectors are fully recognized and explored. Too often the sectorial policies and goals are created in silos. For Pakistan and the regional water sector, the need for 'integration of policies' within a nexus framework is urgent and warrants the government recognition.

Water Infrastructure and Investment

The FAO has projected that an estimated USD 960 billion of capital investment is required to extend and improve irrigation within the years 2005/07 and 2050 in 93 developing countries. Such investments are needed not only for new water infrastructure but also in operations and maintenance of the existing ones in order to improve their efficiency and reduce water loss. Due to the interlinkages of water agriculture and energy, policies outside of the water sector can stimulate water-wise investments when they factor in the costs of reduced water risks. Investments into economic development for water, food production and energy security infrastructure must complement nature and ecosystem for creating a sustainable green economy.

Strengthening the enabling environment for driving water investments requires well-designed regulations, competition policy, financial market policy, dedicated investment promotion and facilitation, and improved public governance. International co-operation as well as national and local policies aimed at the broader investment environment need to be supplemented by a dedicated set of policies that promote water investment. Governments should incentivize leveraging of public funds with commercial finance.

Leaving No one behind – Social Inclusion

Access to clean water, modern energy services and sufficient food supply is fundamental for reducing poverty and achieving sustainable development goals. To meet the needs of those people with limited access to these three resources and rising demand in rapidly developing regions it is necessary to address water, en-

ergy and food issues jointly, because choices and actions in any of these domains can significantly impact the others. Policies and water management decisions which also manifest in agriculture and energy sectors affect everybody, and so they should therefore be determined with inclusive and participatory processes to reflect the diversity of communities.

Women comprise just less than half of the population of Pakistan and youth makes up 65% of the country's population yet youth and gender mainstreaming is not well researched and understood. Monitoring and evaluation processes are not developed enough to reveal the true gender and inclusion power dynamics that occur within the resources management context. Furthermore, there is a need to better understand and account for a broader range of factors that can lead to exclusion and marginalization, such as age, disability, ethnicity, caste, and sexuality, if we are to ensure that no one is left behind.



Dr. Arif Alvi, the Honourable President of Pakistan has kindly consented to inaugurate the 4th Karachi International Water Conference and the Opening Plenary Session to be held on Tuesday, 26th November, 2019.

Donors and Partners

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 and partners who helped us in between the period January 2018 to June 2019:

AASA Consulting	Neelam Habib
Akbar Associates Group	News One & TV One
Alif Design	Nuzhat Kirmani
Amjad Iqbal Ahmed	Old Associates of Kinnaird Society (OAKS) Karachi Chapter
Ashraf Kapadia	Pakistan Business Council
Asiya Shaukat	Pakistan Centre for Philanthropy
Aurat Foundation	Pakistan Poverty Alleviation Fund (PPAF)
Australian High Commission, Islamabad	Panjwani Charitable Foundation
CapNet UNDP	Patients Aid Foundation
Civil Society Coalition for Climate Change	Philanthropic Individuals
Cleanwave Pakistan	Pure Tech Systems
Comprehensive Disaster Response Services	Pure Water Technology
Dr. Ayesha Khan	RAASTA Development Consultants
Dr. Nargis Akhtar Sharif	Rotary Centennial Club
Embassy of Hungary, Islamabad	Rotary Continental Club
Engro Foundation	Saamia Khan
Global Water Partnership	Saira Shaikh
Golden Harvest	Samina Hamidi
Haji Muhammad Benevolent Fund	Sanam Saeed

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Hasnain Baxamoosa	Sarfaraz Ahmed Rahman
HOPE Trust	Serena Hotels
Hope Uplift Foundation	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)
ICARE Foundation	Shahid Siddique
Indus Society for Human and Environment Development (ISHED)	Social Policy and Development Center
International Water Management Institute	Stimulus
Karachi Grammar School	Thardeep Microfinance Foundation
Karachi Urban Lab – Institute of Business Administration (IBA), Karachi	Thardeep Rural Development Programme (TRDP)
Karachi Water Sewerage Board	The Asia Foundation (TAF)
Khursheed Karim	United Bank Limited
Lahore University of Management Sciences (LUMS)	University of Karachi
Lasbela University of Agriculture, Water and Marine Sciences (LUAWMS)	WAPDA
Mariam Halai	Women and Water Networks (WWNs)
Moeen Haq	Women Development Foundation Pakistan
Mohammad Aftab Manzoor	WWF Pakistan
Naila Bhimjee	Zafar Younus
Nasreen Aslam Khan	Zara Yasin
National Volunteer Program (NVP)	Zarmeen Aamir
NED University of Engineering and Technology (NE-DUET)	Zoya Yasin

Financial Statements

2018 & 2019

Hisaar Foundation

(Company Limited by Guarantee and Licensed Under Section 42 of Repealed Companies Ordinance, 1984)

Statement Of Financial Position as at June 30, 2019

	Note	2019 Rupees	2018 Rupees
ASSETS			
NON CURRENT ASSETS			
Property, plant and equipment		323,988	65,310
Long term deposits		180,000	390,000
		<u>503,988</u>	<u>455,310</u>
CURRENT ASSETS			
Advances		100,000	-
Other receivables		1,298,010	317,487
Taxation - net		458,153	379,908
Cash and bank balances		20,745,708	3,550,143
		<u>22,601,871</u>	<u>4,247,538</u>
TOTAL ASSETS		<u>23,105,859</u>	<u>4,702,848</u>
FUND AND LIABILITIES			
FUND			
General fund		(1,160,408)	(257,299)
NON CURRENT LIABILITIES			
Deferred capital grant		289,989	-
CURRENT LIABILITIES			
Deferred credit - unutilized grants		23,438,542	4,568,340
Other payables		537,736	391,807
		<u>23,976,278</u>	<u>4,960,147</u>
CONTINGENCIES AND COMMITMENTS			
TOTAL FUND AND LIABILITIES		<u>23,105,859</u>	<u>4,702,848</u>


CHIEF EXECUTIVE


GOVERNOR

Financial Statements

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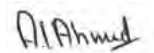
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Income and Expenditure Account for the Year Ended June 30, 2019

	Note	2019 Rupees	2018 Rupees
INCOME			
Donations		686,494	523,500
Membership fee		50,000	-
Relief and emergency support income		1,541,000	607,400
Programme support income		9,755,094	12,954,140
Release of deferred income		-	49,999
Zakat ramzan appeal support income		2,988,500	1,922,000
Water conference support income		-	9,024,384
Think tank support income		-	1,340,991
Other income		3,048,577	2,401,675
		18,069,665	28,824,089
EXPENDITURE			
Administrative expenses		4,041,649	4,328,705
Programme expenses		8,867,966	10,157,936
Relief and emergency support expenses		486,341	510,471
Think tank expenses		1,969,240	3,336,358
Water conference expenses		1,274,958	8,599,451
Zakat ramzan appeal expenses		2,328,775	1,738,651
Financial charges		3,845	7,776
		18,972,774	28,679,348
Net (deficit) / surplus for the year		(903,109)	144,740



CHIEF EXECUTIVE



GOVERNOR

Acknowledgments

Over the last 17 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 pioneering work of the Think Tank, especially on the Implementation Framework for Pakistan's National Water Policy.

Let me take this opportunity and acknowledge Ms. Maha Faraz, 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 dedication and selfless efforts of Ashraf Kapadia, Simi Kamal and Zohair Ashir, without whose strategic direction Hisaar Foundation would not be where it is today. I would also like to recognize the role of the Governors of Hisaar Foundation who encouraged us to produce this report.

Finally, I would like to acknowledge my colleagues, Daniya Khalid and Kausar Hashmi whose contribution to this report is laudable. I would also like to acknowledge my colleague, Ahmed Palwa whose meticulous recording keeping has made documentation of projects that much easier. I would also like to thank and acknowledge Aatir Jilani who has supported me through the company affairs and administration of the Foundation. Finally, I would also like to thank the rest of the staff of Hisaar Foundation, Nadeem Siddiqui and 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 - Without your support, Hisaar Foundation would not be where it is today.

Sanaa Baxamoosa
General Manager





(Set up under Section 42 of the Companies Ordinance 1984)

Approved Non-profit Organization under section 2(36) (c) of the Income Tax Ordinance, 2001 CSO Certification Award: PCP - 2012/231

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