Syed Zaheer Hussain Gardezi Former Director General Earthquake Reconstruction & Rehabilitation Authority (ERRA) Govt. of Pakistan

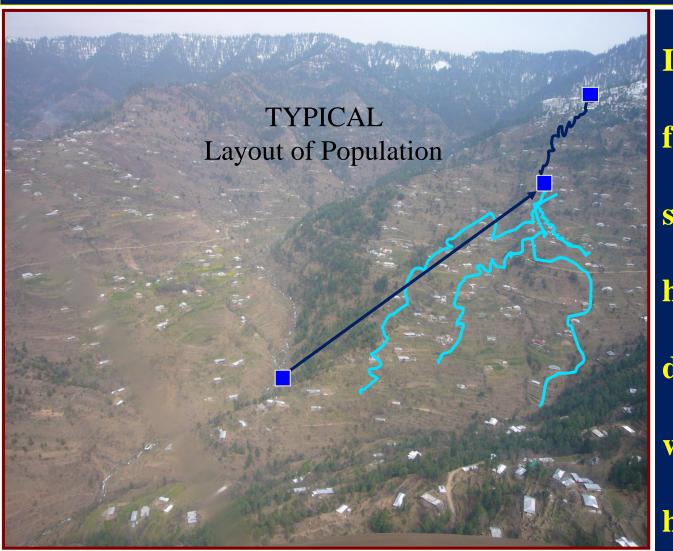


- Deaths : 73,338
- Injured : 128, 304
- Families affected : 500,000
- Population affected: 3.5 M
- Area Affected :30,000 Sq KM
- Edu. Institutions: 6298
- Health Institutions: 796
- Houses destroyed : 600,000
- Roads damaged : 6440 km
- Telecom, Power Services : 50-70%
- Water & Sanitation: 4500 +





3.5 million population affected



In the absence of a formal water supply system, WOMEN have to travel miles downhills to fetch

water spending

hours on daily basis

Under the over arching principal of "BUILD BACK BETTER" In 2008, ERRA-WatSan sector proposed promotion of Rain Water Harvesting as one of the best alternative & supplementary (Long term) solution of water shortage in EQAAs

POTENTIAL FACTORS

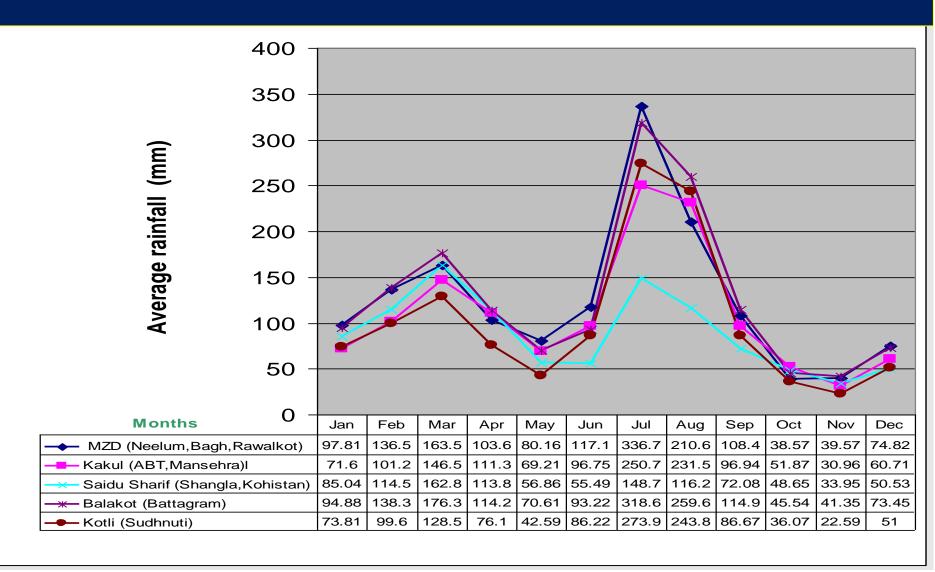
EQAAs have the best
annual average rain fall
of >1500 mm in the
country, which is the
primary source of water

After EQ almost 95%

Buildings are having CGI

Roofing which is the most efficient catchments surface

Ave. monthly Rain-fall Pattern in Earthquake Affected Areas Pakistan



Trainings, Seminars, Workshops, development of technical guidelines on RWH and collaboration with Universities for further R&D was part of the Project



A pilot project (\$ 6.2 million) was implemented by ERRA. The 1st ever formal Public Sector initiative on Rooftop RWH in Pakistan. More than 40,000 RWH Systems on private houses & 1300 + public Institutions provided with Roof Top RWH Systems



RWH mass awareness walk & Inter-School Debates Dec 2013 – Murree









Inauguration of Roof-Top RWH System at University of Poonch by Minister for Social Welfare & Women Development, Ms Farzana



ERRA's RWH System Installed on Public Sector Buildings

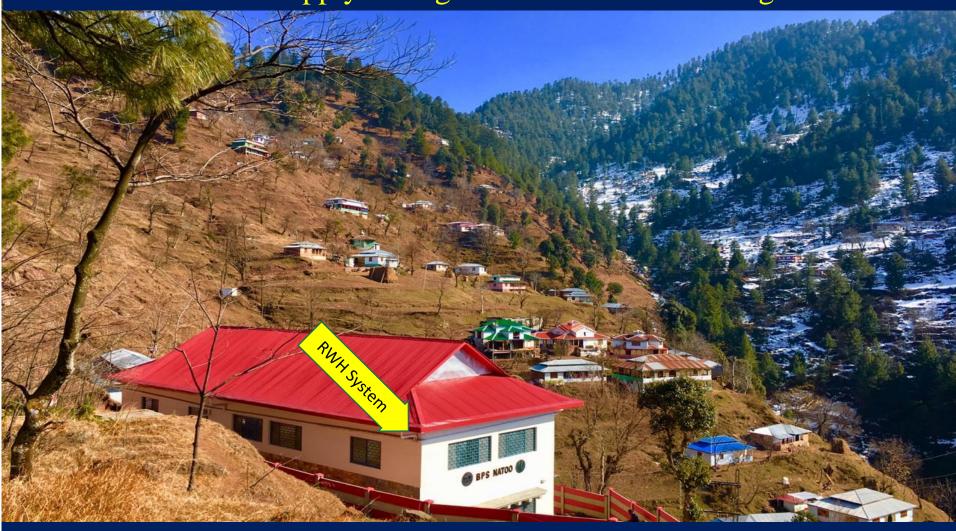
Issue: Water

Solution: Rain Water



ERRA's RWH System in village Lothran- U/C Nagri Bala Abbottabad

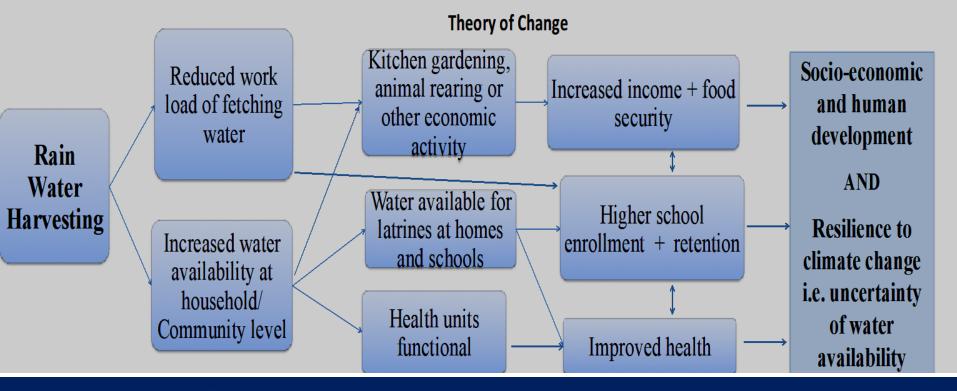
School Water Supply through Rain Water Harvesting in AJK



RWH on IsDB Girls Primary School Naato – Hattian Bala AJK

Third Party Evaluation by

 $International\ Institute\ of\ Environment\ \&\ Development\ (IIED)\ -UK\ ,\ in\ collaboration\ with$ $Institute\ for\ Social\ and\ Environmental\ Transition\ (ISET-PK)$



- 986 -hours of women saved / Annum
- 27% -Kitchen Gardening Improved
- 53% Open defecation reduced

2. Research Study by MPhil Students of PIDE

"Impact of Rooftop Rain Water Harvesting Technology on

Women Well - being in Hilly and Fragile Areas: Evidence from

Pakistan"

BY: (Ajaz Ahmed, Usman Mustafa, and Muhammad Nasir),

http://www.pide.org.pk/pdf/Working%20Paper/CEECC%20Worki

ng%20Paper-1.pdf

Recommendations:

"Policy makers should consider this approach of water supply in rural areas as it provides water of acceptable quality at consumption point"

COME OF CONTINOUS ADVOCACY

OCTOME OF CONTINUOUS INDICATES	
Feb-23, Directives of PM, GoAJK	April-11,2023
1. Prime minister of Azad Jamun Kashmir issued directives to launch RWH Program in the State.	Capital Development Authority Islamabad Approves RWH Policy;
	Mandating the installation o

Comprehensive Awareness a rainwater harvesting tank Campaign be launched and after 03- and a small well for

penalized, if wasting Rainwater

years, each house owner has to be recharging groundwater in each house.

Recommendations:

- > RWH is equally beneficial, addressing water issues during droughts or managing the flood conditions or any disaster
- Senior Management & Policy makers need to be advocated about RWH potentials & benefits in SARNET, GWP & WFW countries
- SARNET Forum can be utilized for extending Technical Support in the Region for Promotion of RWH
- Engaging local communities can be helpful in scaling up the initiative, not only to address the water issues but to promote enterpenureship as well.
- Annual Seminars / Workshops may be held in SARNET Countries for experience sharing and promotion of RWH
- Architects and Planners have to incorporate RWH Systems in Buildings and Landscaping designs

Providing piped water facilities to the scattered Population living on rugged Mountains or Deserts - A big Challenge



ERBB

Rain delivery service to your home





- Drinking
- Washing / Bathing
- Sanitation
- Kitchen Gardening
- Small scale Agriculture
- Live Stock
- Groundwater Recharging

Courtesy: Mr Gopi Nath of India

Thank You

For relevant quarries and information-sharing, one may contact through;

zaheergardezi61@gmail.com

Please visit YouTube Chanel

www.Gain-from-Rain