Water and Sanitation Extension Program (WASEP)
Integrated Approach

Water Supply
Supply & Treatment
Focus on unserved areas

Health and Hygiene
(CHIP & SHIP)
Involves CBOs, LSO and relevant agencies

Capacity Building
Train CBOs, LSO & line agencies

Sanitation
Household latrines and Sewerage systems

Improving Water Quality Monitoring Mechanism

Monitoring & Evaluation and M.I.S.

Focus on Public Private Partnership

WSC
WSO
WSI
Key Guiding Principles

- Community driven approach
- Complete Ownership
- Promoting more options for service delivery
- Targeting the poor and marginalized groups
- Informed choices through community participation
- Cost recovery – capital cost sharing
- Integrating Interventions
Project Approach

Social Mobilization

- Mobilize Communities
- Social Mobilization
- Establishing Community based financing
- Build Capacities
- Facilitate Conflict Resolution

Community based Financing

- O&M Fund
- Monthly tariff
- Fee for new connections

WSO’s salary
WSI’s salary
Repair & Maintenance
Health and Hygiene Education

Community Health Improvement Program (CHIP)
- Awareness sessions
- Water & environment related annual day celebrations

School Health Improvement Program (SHIP)
- Teacher training
- Awareness raising
- Child to Child approach

Monitoring
- Incidences of diarrhea
- Change in Hygiene Status
- Medical expenditure
# Technological Advancement

<table>
<thead>
<tr>
<th>Innovation</th>
<th>Impact</th>
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<tr>
<td>Software based for water modeling</td>
<td>Help equal distribution of water among the beneficiary households</td>
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<td>Water Quality Assessment Equipment</td>
<td>DelAgua Kit; Spectrophotometer</td>
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<td>Appurtenances like ARV, PRVs</td>
<td>Supply of water at appropriate pressures and uninterrupted supply</td>
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<td>Insulation Techniques</td>
<td>Uninterrupted supply of water even in extreme winters in high altitude villages</td>
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<td>Laying pipes below freezing level</td>
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<td>HDPE pipes</td>
<td>Extended project life</td>
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<tr>
<td></td>
<td>Withstands ground movements, land slides due to its elasticity</td>
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<td></td>
<td>Fewer joints less chances of leakages</td>
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<td></td>
<td>Easy for laying – cost saving</td>
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<tr>
<td>Compression Fittings</td>
<td>Durable joints, less chances of leakages</td>
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<tr>
<td>RCC storage tanks</td>
<td>Durable – can withstand earthquakes</td>
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<td>Good for Disaster Risk Mitigation point of view</td>
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<tr>
<td>River Bank Filtration</td>
<td>Cost effective and user-friendly auto filtration technique</td>
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<tr>
<td>Sewerage System</td>
<td>Evidence based design, &gt;95% BOD removal, cost-effective, ease in O&amp;M,</td>
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Selection Criteria

Fair, equitable, and transparent selection; evenly balances needs with capacities to sustain a project.
Implementation Steps

1. Announcements + Short-listing + Initial dialogue + Reconnaissance visit
2. Topographical survey
3. Designing, costing
4. Collection of O&M fund
5. Review & approval
6. KAP data and baseline survey
7. WQ baseline survey
8. Interim M & E/Audit
9. Implementation/supervision
10. Training of WSCs
11. Mid term refresher training
12. Completion
13. Social Mobilization, Collection of quarterly WQ and h&h data
14. Handover
15. Commissioning and testing
16. Post Project M & E/Audit
Water Supply Project – A Typical Layout

- Spring Protection Chamber
- Reservoir
- Drinking Water Supply
- Valve Box
- Mosque / Imambargah Jamatkhana
- House Hold
- Schools
- Public Building
- Taps

Diagram showing the flow of water supply from the reservoir through the valve box to various locations such as mosques, households, schools, and public buildings.
Some partners in Development

- Pakistan Poverty Alleviation Fund- PPAF
- Aga Khan Foundation Pakistan-AKF,P
- Government of Australia
- Partner Aid International (PAI)
- Flora Family Foundation -FFF
- Kreditanstalt fur Wiederaufbau(kfw))
- Immamat Funding
- PATRIP Foundation
- Government of Pakistan
- Local government GLT-BLN and Chitral
- International Union for Conservation of Nature (IUCN)
- World Wildlife Fund, Pakistan (WWF,P)
- Aga Khan Health Services Pakistan (AKHS,P)
- Aga Khan Rural Support Program (AKRSP)
- Aga Khan Cultural Services Pakistan (AKCS,P)
- Aga Khan University (AKU)
- UNICEF Pakistan
Impacts

- Hygiene Status
- Inter-Communal Harmony
- Access to Basic Services

- Workload
- Medication Cost
- Diarrhea Incidences
Post Intervention Portray of Structures

- WWTP – Septic Tank + Bio-Filter
- Standpipe
- Water Storage Tank
- Intake Chamber
Pictures – Pipe laying in urban areas
Pictures – River ban filtration
Up-flow Roughing Filter

Chief Minister GB Inaugurating the Pumping Project

Trenching work for pipe laying
Pictures

SHIP session

CtC approach

Capacity Building Training