Multiple Stakeholders Role in Sustainable Water Sanitation and Hygiene Development in South Asia Region

(A Case Study from Lahore Pakistan)

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Introduction

- Study conducted in Badar Colony Lahore
- Total 6 Hamlets with large population
- Low socioeconomic & educational status
- Poor WASH facilities
- High level of water born disease
- Extreme poor & backwardness
Drinking Water Quality Thread
Community Socioeconomic overview
Social Deprivation Overview

Ground Water Contamination
Community Situation before Project

Ground Water Contamination
Social Overview of Study Area
Sanitation Scenario in Study Area

**Types of Sanitation System Before Project.**

<table>
<thead>
<tr>
<th>Percentage Within Area</th>
<th>Badar Colony</th>
<th>Dogach Town</th>
<th>Jalal Park</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop &amp; Store</td>
<td>95%</td>
<td>90%</td>
<td>20%</td>
</tr>
<tr>
<td>Flush &amp; Forget</td>
<td>0%</td>
<td>0%</td>
<td>10%</td>
</tr>
<tr>
<td>Flush &amp; Discharge</td>
<td>5%</td>
<td>10%</td>
<td>70%</td>
</tr>
</tbody>
</table>

**Latrines types Before Interventions**

- Simple Dig without House: 2%
- A House without Wall & Roof: 83%
- A House with Wall but not Roof: 15%
Objectives of Study

• To access the fundamental WASH issues of local community
• To determine the process of multiple stakeholders involvement
• To analyze the impact of WASH development on human life
Methods and Methodology

• Three hamlets as targeted population with 2000 HH
• Interview, FGD & Personal observation for Data collection
• 450 HH interviewed while 100 from each Hamlet randomly
• 120 FGD; 30 from each hamlet
• Data analyzed on SPSS & interpreted frequency - Percentage
• Secondary data collected from official reports, literature
Results & Discussion

• Safe drinking water and centralized sanitation services
• A tube well 700 feet depth & OHR 50,000GSC
• Underground WATSAN piping network
• Disposal station for Wastewater treatment
• Street pavement, SWM, Health & Hygiene education
• Decreased Water born disease & economic growth
Community Satisfaction with Water Quality

**Before Project**

- Badar Colony: 10% Satisfied, 90% Dissatisfied
- Dogach Town: 25% Satisfied, 75% Dissatisfied
- Jalal Park: 30% Satisfied, 70% Dissatisfied

**After Project**

- Badar Colony: 90% Satisfied, 10% Dissatisfied
- Dogach Town: 95% Satisfied, 5% Dissatisfied
- Jalal Park: 90% Satisfied, 10% Dissatisfied

7/21/2017
Community Satisfactions with Sanitation

**Before**

<table>
<thead>
<tr>
<th></th>
<th>Dissatisfied</th>
<th>Satisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Badar Colony</td>
<td>85%</td>
<td>15%</td>
</tr>
<tr>
<td>Dogach Town</td>
<td>70%</td>
<td>30%</td>
</tr>
<tr>
<td>Jalal Park</td>
<td>80%</td>
<td>20%</td>
</tr>
</tbody>
</table>

**After**

- Over loaded & imbalanced area

<table>
<thead>
<tr>
<th></th>
<th>Dissatisfied</th>
<th>Normal</th>
<th>Satisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Badar Colony</td>
<td>70%</td>
<td>5%</td>
<td>25%</td>
</tr>
<tr>
<td>Dogach Town</td>
<td>30%</td>
<td>10%</td>
<td>60%</td>
</tr>
<tr>
<td>Jalal Park</td>
<td>5%</td>
<td>5%</td>
<td>90%</td>
</tr>
</tbody>
</table>

7/21/2017
Multiple Stakeholders Inclusion in WASH Development

• Community mobilized & engaged in all project phases
• Women WASH Development Leaders (WWSHDL)
• Youth and Student for Mapping and Mobilization
• Government Department, Civil Society Joint Venture
• WASH Development committees at Street level
• Water and Sanitation Community Organization WASCO
Sustainability Indicators - WASH Bills and Recovery Rate

**Paying Water Supply & Sanitation Bills.**

<table>
<thead>
<tr>
<th>Location</th>
<th>Monthly Regularly</th>
<th>After Two Month</th>
<th>Never Paid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Badar Colony</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Jalal Park</td>
<td>76%</td>
<td>24%</td>
<td>0%</td>
</tr>
<tr>
<td>Dogach Town</td>
<td>98%</td>
<td>2%</td>
<td>0%</td>
</tr>
</tbody>
</table>

**Paying Water Bills**

- Monthly Regular: 91%
- After Two Month: 9%
- Never Paid: 0%
- 0%
Impacts on Multidisciplinary Human Development

• Significant Socioeconomic Increased
• WASH Interventions on Health Development (SDGs 3)
• Educational Improvement (SDGs 4)
• Equal Gender Opportunities (SDGs 5)
• Environmental Improvements (SDGs 6)
• Climate Change Adaption- (SDGs 13) (Partnership)
Conclusion & Recommendation

• Multi stakeholder Successful for WASH Development
• Engaging communities ensure empowered & self-reliance
• Reduce workload & increase ownership & sustainability
• Poverty Reduction, Ecosystem and educational development
• Project played excellent role for Govt & Policy Makers
• Multiple stakeholder approached should be practiced for WASH development
Thank You