

# SHARED WATER CHALLENGES NESTLE ISLAMABAD FACTORY



## Specific Challenges Commented by Stakeholders

Stakeholder Name	Comment(s)
Capital Development Authority Rawalpindi	Both the depletion of groundwater levels and the deterioration of drinking water quality, CDA emphasizes the urgent need for rainwater harvesting initiatives to replenish water resources and ensure access to safe and clean drinking water for all
WASA Rawalpindi	WASA highlights a critical challenge in maintaining the quality of drinking water, underscoring the pressing need for support in the upkeep of filtration plants within the watershed area to ensure a sustainable and safe water supply for the community. Addressing this issue is pivotal for safeguarding public health and the integrity of the water supply infrastructure.
New Stylish	Stylish underscores a specific water challenge centered around the quality of water used in food production, emphasizing the immediate need for enhancements to ensure improved water quality standards in their processes.
Aleem Laundry	Identified shared water challenge arising from a surge in deep wells, causing a decline in groundwater availability. To address this issue, the vendor emphasizes the importance of water recycling initiatives and has already commenced efforts in this direction, aiming to enhance sustainable water management practices in the region.
National Agriculture research center (NARC)	NARC underscores a shared water challenge stemming from extensive agricultural irrigation, prompting the implementation of innovative solutions. In response, collaborative efforts have been initiated, incorporating soil moisture sensors and drip irrigation projects to optimize water usage and promote sustainable practices in agriculture.

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Dutch Food	Dutch Food highlights a shared challenge as the static water level experiences only minor declines, emphasizing the critical need for substantial water recycling and conservation efforts now to reserve water for future consumption and ensure sustainable water management practices.
HTA (Pvt) Limited	HTA advocates for enhancing water quality in the local community, recognizing the importance of substantial water recycling and conservation initiatives. Urgent action is needed to ensure a sustainable supply and improve water quality for future generations.
Prime Bread	Prime Bread highlights a shared challenge, emphasizing the critical need to enhance the quality of Simli Dam's main reservoir to improve catchment quality. Collaborative efforts are essential to secure a sustainable and high-quality water source for the community's future needs.
Sustainable Development Policy Institute (SDPI)	SDPI emphasizes expanding the area and scale of soil moisture sensors to enhance precision in water resource management. Additionally, they underscore the imperative of raising awareness on effective water treatment methods to ensure sustainable and responsible water usage practices.
National University of science and technology (NUST)	NUST identifies a critical need to invest in research to tackle both quantity and quality issues, especially concerning contaminated groundwater. Prioritizing this, the institution underscores the importance of strong testing capabilities, fostering a commitment to innovative solutions and robust measures in sustainable water management.

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Pakistan Profile	It necessitates a sufficient water quantity in the catchment, highlighting the crucial need for sustainable water sourcing to meet manufacturing requirements and uphold environmental responsibility.
Novartis	ensuring an adequate water quantity in the catchment emerges as a shared challenge, underscoring the essential need for sustainable water sourcing to support operational demands and environmental stewardship. Collaborative efforts are imperative to secure a reliable and plentiful water supply for the industry's ongoing sustainability.
Pakistan EPA	The Environmental Protection Agency (EPA) faces a significant water conservation challenge due to the declining quantity of water. In response to this issue, Nestlé is currently working on RO concentrate recovery installation project, in order to ensure sustainable solutions to address and mitigate the diminishing water resources.
Local Population along Nullah Lai	Nullah Lai's population faces a shared water challenge characterized by both a persistent odor issue with neighboring bodies and water quality concerns. Collaborative efforts are essential to address and improve both aspects, ensuring a healthier and more pleasant water environment for the community.



## **Suggestions from SH to Nestle were as follows**

- Maintain ongoing communication to champion water preservation efforts
- Serve as a guiding force for other industries in the realm of water stewardship
- Foster and reinforce engagement with local stakeholders for collective water conservation actions
- Actively promote and share best practices and techniques for industrial water saving
- Focus on water preservation through the implementation of water-efficient irrigation methods like drip irrigation
- Awareness of WASH and water quality challenges. Nestle has conducted multiple sessions with CDA. More sessions are planned with other stakeholders.
- Raise awareness during the monsoon season to minimize water losses and prevent damages caused by flooding
- Consistently advocate for and contribute to sustainable water management practices.



#### Information Media, Channels and Research Papers Identified Water Related Challenges



- 1. Decreasing static levels of groundwater and subsequent pressure of water shortage for agricultural and domestic consumption.
- 2. Seasonal water variances, long dry spells during summers and risk of urban flash floods in monsoon season.
- 3. Poor quality of potable water and linked cases of water borne diseases in Rawalpindi and Islamabad.
- 4. Water pollution and contaminated CDA water supply.
- 5. Lack of supply CDA network and dependence on tankers or borings.
- 6. Access to water, sanitation and hygiene WASH facilities, especially in rural and slum areas.



Please note that the challenges are listed in order of priority

#### Information Media, Channels and Research Papers Identified Wastewater Related Challenges



- 1. Water Borne Diseases
- 2. Bad odour
- 3. Drinking water and sewage mixing
- 4. Drain leakages
- 5. Open drains and lack of wastewater treatment units such as septic tanks
- 6. Lack of proper channel from house to drain pipe
- 7. Blocked drains and spill over
- 8. Ground water aquifer pollution from chemicals and leachate seepage



Please note that the challenges are listed in order of priority

#### References

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- Naqvi, S.S., Javed, S., Naseem, S., Sadiq, A., Khan, N., Sattar, S., Shah, N.A. and Bostan, N., 2020. G3 and G9 Rotavirus genotypes in waste water circulation from two major metropolitan cities of Pakistan. Scientific Reports, 10(1), pp.1-9.
- 3. Rusty pipes and leakages from Water Supply <u>https://mmnews.tv/wasa-pipelines-rusted-defective-across-rawalpindi/</u>
- 4. Regular Maintenance of Filtration Plants <u>https://tribune.com.pk/story/2118057/1-tika-help-upgrade-water-filtration-plants-build-rainwater-tanks-rawalpindi</u>
- 5. Lack of government-initiated projects for twin cities to meet water demand <u>https://www.dawn.com/news/1627768</u>

