

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000287



SITE DETAILS

Site: **Nestlé Waters Pakistan Kabirwala**

Address: Kabirwala Road, District Khanewal, 58250, Kabirwala, PAKISTAN

Contact Person: Bilal Ahmed Sial

AWS Reference Number: AWS-000101

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Core

Date of certification decision: 2023-Mar-09

Validity of certificate: 2026-Mar-09

AUDIT DETAILS

Audited Service(s): AWS Standard v2.0 (2019)

Audit Type(s): Re-Certification Audit

Audit Start Date: 2022-Sep-14

Lead Auditor: Rizwan Masood

Site Participants:

Bilal Ahmed Sial, Project Engineer

Touqeer Qadeer, Project Engineer

Muhammad Bukhsh, Utilities Manager

Yasir Nawaz, Factory Engineer

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ADDITIONAL INFO

Summary of Audit Findings: A total of 12 minor non-conformities and 14 observations were raised during the certification audit. The non-conformities were of sufficient concern to warrant the categorisation of the non-conformity related to identification of catchment IWRAs.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 60 days of receipt of the audit report by 12/02/2023.

Minor non-conformities must be closed out by the time of the next annual audit.

The audit team recommends re-certification of Nestlé Pakistan Kabirwala at Core level pending approval of the corrective actions plan.

CLOSURE OF FINDINGS AND CORRECTIVE ACTION PLAN:

The Client has successfully submitted the corrective action plan addressing all findings. Proof of implementation has been requested for the Minors and this will be evaluated during the Surveillance Audit.

Scope of Assessment: The scope of services covers the recertification audit for assessing conformity of Nestle Pakistan - Kabirwala Factory against the AWS International Water Stewardship Standard Version 2.

Nestle Pakistan - Kabirwala Factory Plant is located at about 7km from Khanewal and 3km from Kabirwala along Kabirwala-Khanewale Road. Site is basically a dairy products processing factory and produces Milk Powders, Dairy Tea Whitener, UHT Milk and Butter.

The factory is located in the catchment, includes Lower Bari Doab that is fed by the River Ravi and the Chenab Rivers on the Northwest and West, and by the Sutluj River in the South East. The catchment includes area between Latitude 29°30' and 31°45' N. and longitude 71° to 74°45'E. It has an area of 12,150 square miles.

The audit was conducted onsite on 14 - 16 Sep 2022. The onsite site audit included the review of documents, interviews of stakeholders, visit of important water related areas at site and catchment initiatives.

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Observation	14
Minor	12

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FINDING DETAILS

Finding No:	TNR-002431
Checklist Item No:	1.2.1
Status:	Open
Finding level:	Observation
Checklist item:	<p>Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:</p> <ul style="list-style-type: none">- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies;- Provide evidence of stakeholder consultation on water-related interests and challenges;- Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;- Identify the degree of stakeholder engagement based on their level of interest and influence.
Findings:	<p>A recommended approach is to detail and consolidate the stakeholder mapping exercise and create and maintain a table or database listing each stakeholder, how they are linked to the organization, any water-related concerns or challenges they face, and a summary of communications with them. The stakeholder mapping should also show any linkages among stakeholders.</p>
Corrective action:	<p>Evidence already available and attached.</p>
Finding No:	TNR-002436
Checklist Item No:	1.3.1
Status:	Open
Finding level:	Observation
Checklist item:	<p>Existing water-related incident response plans shall be identified.</p>
Findings:	<p>It is not clear what the site will act in the event of a fire with regard to possible discharges into public watercourses or the effect on the treatment plant, as well as other possible consequences related to the use or discharge of extinguishing water. This information could be improved at the incident and response plan.</p>
Corrective action:	<p>We will update ETP contingency SOP for the shared Observation and revert you till 31/03/2023.</p>

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Audit Number: AO-000287

Finding No:	TNR-002438
Checklist Item No:	1.3.3
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.
Findings:	<p>No information was made available regarding of annual variance in water usage rates. This topic shall be quantified.</p> <p>The site needs to know whether water availability and system flexibility are sufficient to meet peak demands.</p>
Corrective action:	Evidence already available and attached.
Finding No:	TNR-002439
Checklist Item No:	1.3.4
Status:	Open
Finding level:	Observation
Checklist item:	Water quality of the site’s water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.
Findings:	Water and wastewater quality data should be used to verify compliance.
Corrective action:	Evidence of reports is attached.

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Audit Number: AO-000287

Finding No:	TNR-002269
Checklist Item No:	1.3.4
Status:	Open
Finding level:	Observation
Checklist item:	Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.
Findings:	The site is disposing a portion of its effluents (about 8 %) through septic tank and soakage pits arrangement which is eventually going to underground water table. Site has around 18 such soakage pits. However, no quality monitoring plan in place.
Corrective action:	Effluents disposed-off through septic tank & soakage pits are of similar quality & consists of similar design of septic tank & soakage pits So we will do water quality analysis on random sample basis. We will share monitoring plan till 31/03/2023.
Finding No:	TNR-002440
Checklist Item No:	1.3.5
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.
Findings:	Non-point sources need to be identified, like site drainage channels or stormwater runoff or even another point sources like waste disposal facilities, leaks of oil or chemicals, maintenance facilities (where oils and chemicals are used), electrical transformers (a potential source of oils and PCBs).
Corrective action:	Evidence already available and attached.
Finding No:	TNR-002443
Checklist Item No:	1.3.6
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.
Findings:	IWRA feature should be listed, with a description of what it is, its status.
Corrective action:	Current status of IWRA in attached Evidence has been reviewed.

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Audit Number: AO-000287

Finding No:	TNR-002442
Checklist Item No:	1.3.7
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be identified and used to inform the evaluation of the plan in 4.1.2.
Findings:	The cost analysis should consider, but not be limited to items such as: payment for experts, fees and levies, data collection, technical studies, capital investments and depreciations, risk mitigation actions, stakeholder engagement activities, external communications and staffing, being either 'one-time' actions or events, or operational expenses, and for ongoing monitoring, maintenance and management of water resources. For further guidance, please advice to AWS standard 2.0 guidance.
Corrective action:	Annual water related cost sheet reviewed. 2023 data will be updated till next SV audit.
Finding No:	TNR-002445
Checklist Item No:	1.5.4
Status:	Open
Finding level:	Observation
Checklist item:	Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.
Findings:	Information about biological status of the catchment shall be identified, and where possible, quantified.
Corrective action:	Assessment being carried out through Hydrological study contains parameters related to biological status i.e.. Total Coliform, Total colony count.

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Finding No:	TNR-002446
Checklist Item No:	1.5.4
Status:	Open
Finding level:	Observation
Checklist item:	Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.
Findings:	Water abstractions can also impact on aquifer water quality. This fact should be assessed.
Corrective action:	conclusion of hydrological study contains aquifer quality status. Study is attached.
Finding No:	TNR-002271
Checklist Item No:	1.5.5
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Important Water-Related Areas shall be identified, and where appropriate, mapped, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.
Findings:	Site has not identified any important water related area in the catchment.
Corrective action:	See attached document, we have checked in map to find any IWRA however we have find fish pond within catchment for that we will review & identify if any other IWRA in catchment exists and share update till 31/03/2023.
Finding No:	TNR-002447
Checklist Item No:	1.5.6
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.
Findings:	The site should develop an understanding of the general scale and condition of infrastructure in the catchment. This can usually be achieved through publicly available information and/or consultation with authorities and/or water supply bodies.
Corrective action:	Attach document contains discussion with Local Authorities (TMA) and their briefing on existing infrastructure. However, we will discuss with TMA for future plans.

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Finding No:	TNR-002322
Checklist Item No:	1.8.4
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.
Findings:	Site has not identified any catchment IWRA and needs to reconsider catchment for IWRA.
Corrective action:	See Attach document, we have checked in map to find any IWRA however we have find fish pond within catchment for that we will review & identify if any other IWRA in catchment exists. We will update till 31/03/2023.
Finding No:	TNR-002450
Checklist Item No:	2.1.1
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments: <ul style="list-style-type: none">- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes- That the site implementation will be aligned to and in support of existing catchment sustainability plans- That the site's stakeholders will be engaged in an open and transparent way- That the site will allocate resources to implement the Standard.
Findings:	Kabirwala factory's commitment to AWS standard do not include the principle of continuous improvement.
Corrective action:	See attach document of AWS signed OFF commitment that contains "principle of continuous improvement" is yellow highlighted color.

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Finding No:	TNR-002451
Checklist Item No:	2.1.1
Status:	Open
Finding level:	Observation
Checklist item:	<p>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</p> <ul style="list-style-type: none">- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes- That the site implementation will be aligned to and in support of existing catchment sustainability plans- That the site's stakeholders will be engaged in an open and transparent way- That the site will allocate resources to implement the Standard.
Findings:	<p>The commitment should be made clear the message of guarantee the necessary human and financial resources to achieve the organization's status as a water steward, and to maintain it in the long term.</p>
Corrective action:	<p>Clause 2.1.1 says that "The person signing the commitment should be someone in a position to grant and guarantee the necessary human and financial resources to achieve the organization's status" this commitment is signed off by Factory manager.</p>
Finding No:	TNR-002342
Checklist Item No:	2.3.1
Status:	Open
Finding level:	Observation
Checklist item:	<p>A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</p>
Findings:	<p>The management may develop site specific water stewardship strategy, aligned with AWS outcomes and shared water challenges.</p>
Corrective action:	<p>see attached document</p>

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Finding No:	TNR-002453
Checklist Item No:	2.3.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	<p>A water stewardship plan shall be identified, including for each target:</p> <ul style="list-style-type: none">- How it will be measured and monitored- Actions to achieve and maintain (or exceed) it- Planned timeframes to achieve it- Financial budgets allocated for actions- Positions of persons responsible for actions and achieving targets- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.
Findings:	<p>The timeframe as being continuous renders them hard to track continual improvement. It is recommended to have more specific targets which change each year. The Standard requires for the learning from achieving targets in the Water Stewardship Plan to demonstrate evolution of the plan each year.</p>
Corrective action:	<p>We will update "water stewardship plan" with more specific water targets till 31/03/2023.</p>
Finding No:	TNR-002454
Checklist Item No:	2.3.2
Status:	Open
Finding level:	Observation
Checklist item:	<p>A water stewardship plan shall be identified, including for each target:</p> <ul style="list-style-type: none">- How it will be measured and monitored- Actions to achieve and maintain (or exceed) it- Planned timeframes to achieve it- Financial budgets allocated for actions- Positions of persons responsible for actions and achieving targets- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.
Findings:	<p>The site should note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.</p>
Corrective action:	<p>We will update "water stewardship plan" with more specific water targets till 31/03/2023.</p>

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Finding No:	TNR-002455
Checklist Item No:	3.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.
Findings:	The site presented data showing the annual performance against water balance as evidence but not as a progress towards meeting water balance.
Corrective action:	We will link water reduction targets (decided at start of year) with water withdrawal and share till 31/03/2023.
Finding No:	TNR-002375
Checklist Item No:	3.3.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented.
Findings:	Site need to set its water consumption targets rationally i.e. considering the effects of Liquid/ Powder production ratio. I seems like current KPIs are unrealistic and no new targets setting done yet,for water consumption.
Corrective action:	We are tracking water as "reduce volumetric total use" (Absolute reduction). We will share updated document till 31/03/2023.
Finding No:	TNR-002376
Checklist Item No:	3.4.2
Status:	Open
Finding level:	Observation
Checklist item:	Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.
Findings:	The site is disposing a portion of its effluents (about 8 %) through septic tank and soakage pits arrangement which is eventually going to underground water table. Site has around 18 such soakage pits. However, no quality monitoring plan in place.
Corrective action:	Effluents disposed off through septic tank & soakage pits are of similar quality & consists of similar kind of septic tank & soakage pits So we will do water quality analysis on random sample basis. We will share monitoring plan till 31/03/2023.

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Finding No:	TNR-002457
Checklist Item No:	3.5.1
Status:	Open
Finding level:	Observation
Checklist item:	Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.
Findings:	The site can develop a maintenance plan for the internal IWRA identified on site. Where an IWRA is to be restored or improved, the organization should have a record of its status prior to interventions.
Corrective action:	<p>SAP-AMM is fully implemented in factory and all maintenance record is available in SAP.</p> <p>See Attach document, we have checked in map to find any IWRA however we have find fish pond within catchment for that we will review & identify if any other IWRA in catchment exists till 31/03/2023.</p>
Finding No:	TNR-002458
Checklist Item No:	3.7.1
Status:	Open
Finding level:	Observation
Checklist item:	Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.
Findings:	It is important to ensure that choices about switching suppliers are based on measurable water use data and not on theory or modelling. For example, water footprint assessments are a means to raise awareness about how much water is typically used for a product or food item but may be unreliable for a specific case.
Corrective action:	Evidence is attached.
Finding No:	TNR-002388
Checklist Item No:	4.4.1
Status:	Open
Finding level:	Observation
Checklist item:	The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be identified.
Findings:	Site need to set its water consumption targets rationally i.e. considering the effects of Liquid/ Powder production ratio. I seems like current KPIs are unrealistic and no new targets setting done yet, for water consumption.
Corrective action:	<p>We are tracking water as "reduce volumetric total use". (absolute reduction).</p> <p>We will share updated document till 31/03/2023.</p>

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Finding No:	TNR-002461
Checklist Item No:	5.4.2
Status:	Closed
Finding level:	Minor
Due date:	2023-Sep-12
Checklist item:	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.
Findings:	In addition to formal disclosure, sites are required to communicate efforts to address shared water challenges to relevant stakeholders in a manner that is both active and accessible. This means that the site should not be passive but instead should undertake efforts to provide such information to interested stakeholders.
Corrective action:	Due to COVID we were doing sessions within our site by inviting stakeholders. On site sessions documents are attached. Sure now we will do sessions outside our organization.
Finding No:	TNR-002462
Checklist Item No:	5.5.3
Status:	Open
Finding level:	Observation
Checklist item:	Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.
Findings:	Site shall continuously monitor the best practices and be well prepared to handle any on-site water related emergency that can pose a significant risk and threat to human or ecosystem health and will communicate to all public agencies through defined reporting protocols.
Corrective action:	Site is conducting regular quality analysis of discharge water with Authorities so far No water related noncompliance has been reported. Attached reports.

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Report Details

Report	Value
Report prepared by	Rizwan Masood
Report approved by	Lurdes Guerra
Report approved on (Date)	20 December 2022

Surveillance

Proposed date for next audit
2023-Sep-12

Stakeholder Announcements

Date of publication	Location
27/05/2022	Local News Paper "Aaghaz-E-Safar Multan"
27/05/2022	https://www.nestle.pk/sites/g/files/pydnoa361/files/2022-09/KBF%20Stakeholder%20Announcement%20Nestle%20Kabirwala.pdf
08/09/2022	https://a4ws.org/certification/stakeholder-announcements/
07/09/2022	WSAS Website
Comment	Stakeholder announcement was published on AWS and WSAS websites. It was published in local newspaper (Aaghaz-E-Safar Multan) and at company website.

Catchment Information

Catchment Information

The site water input is underground water and the effluent ultimate receiving body is a canal. Based on hydrological study, the catchment scope includes Lower Bari Doab that is fed by the River Ravi and the Chenab Rivers on the Northwest and West, and by the Sutluj River in the South East. It located between Latitude 29°30' and 31°45' N. and longitude 71°to 74°45'E. It has an area of 12,150 square miles.

Client Description and Site Details

Client/Site Background

Nestlé Pakistan - Kabirwala Factory Plant is located at about 7km from Khanewal and 3km from Kabirwala along Kabirwala-Khanewale Road. Site is basically a dairy products processing factory and produces Milk Powders, Dairy Tea Whitener, UHT Milk and Butter.

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Summary of Shared Water Challenges

Summary of Shared Water Challenges

The shared water challenges are identified, these mainly includes bad quality of drinking water and depleting ground water levels in the catchment.

0.1 General Requirements for Single Sites, Multi-Sites and Groups

0.1.1 Eligibility Criteria

0.1.1.1	The site(s) occupy one catchment OR an exception has been granted.	 Yes
0.1.1.2	The scope of the proposed certification shall be under the control of a single management system.	 Yes
0.1.1.3	The scope of the proposed certification shall be homogeneous with respect to primary production system, water management, product or service range, and the main market structures.	 Yes

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1 STEP 1: GATHER AND UNDERSTAND

1.1 *Gather information to define the site's physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant.*

1.1.1 *The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:*

- Site boundaries;
- Water-related infrastructure, including piping network, owned or managed by the site or its parent organization;
- Any water sources providing water to the site that are owned or managed by the site or its parent organization;
- Water service provider (if applicable) and its ultimate water source;
- Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies;
- Catchment(s) that the site affect(s) and is reliant upon for water.



Yes

Comment An updated layout of site has been documented. Site boundaries, water source (turbines), effluent treatment plant, water and effluent lines were clearly mentioned on the site layout. (attached)

Site has two deep water wells (turbines) as source of water. After withdrawal from wells the water is transferred to a bulk water tank and distributed to different areas in factory. Access to both wells is controlled effectively. Also adequate flow meters were installed on water distribution lines.

Factory has different discharge points and around 85 - 90 % of discharges are going to waste water treatment plant and finally to agricultural fields. However, the site is disposing a portion of its effluents (about 10 %) through septic tank and soakage pits arrangement which is eventually going to underground water table.

Site has also documented the catchment based on its water extraction and ultimate disposal. Site also has conducted a hydrological study on identified catchment. (attached)

1.2 *Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries.*

1.2.1 *Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:*

- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;
- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies;
- Provide evidence of stakeholder consultation on water-related interests and challenges;
- Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;
- Identify the degree of stakeholder engagement based on their level of interest and influence.








Obs.

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Comment	The factory management has identified the stakeholders related to the water governance in the catchment. Four main stake holders have been identified which includes; vendors, industries, community and government officials. Site has prioritized stakeholders based on their influence and interest in "degree of stakeholders engagement - sphere of influence" attached.	
	Site has identified the shared water challenges based on the consultation with stakeholder. These mainly include; - Drinking Water quality issue - Overuse of Catchment Water	
1.2.2	<i>Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.</i>	 Yes
Comment	Site has prioritized stakeholders based on current and potential degree of influence between site and stakeholder influence and interest in "degree of stakeholders engagement - sphere of influence" attached.	
1.3	<i>Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.</i>	
1.3.1	<i>Existing water-related incident response plans shall be identified.</i>	 Obs.
Comment	The site management has developed an incident and response plan which includes the undesired water related incidents and emergencies. (Emergency preparedness and response Procedure- Attached). The existing emergency and incident procedure addresses different potential spillages and floods. It is not clear what the site will act in the event of a fire with regard to possible discharges into public watercourses or the effect on the treatment plant, as well as other possible consequences related to the use or discharge of extinguishing water. This information could be improved at the incident and response plan.	
1.3.2	<i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i>	 Yes
Comment	Site has mapped the water inflows and outflows and also the site important water related areas in site map (attached).	
1.3.3	<i>Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.</i>	 No
Comment	Site has installed extensive metering on its water network, almost every water line is metered. Finding No: TNR-002438	
1.3.4	<i>Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.</i>	 Obs.

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Comment Raw water quality (physical, chemical and biological) parameters of source water are being monitored on regular basis (Raw Water Quality Monitoring Plan - Attached).
Reports of raw water quality monitoring by Nestlé Quality Assurance Center VITTEL, for both wells are attached. Also, latest 3rd party reports of raw water against local drinking water quality parameters are attached.

The quality of effluents at ETP discharge is also being regularly monitored. Last 3rd party report found compliant with local waste water quality parameters.


The site is disposing a portion of its effluents (about 8 %) through septic tank and soakage pits arrangement which is eventually going to underground water table. Site has around 18 such soakage pits. However, no quality monitoring plan in place. One random test report for one soakage pit was available as attached.

1.3.5 *Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.*  **Obs.**

Comment The organization has a responsibility (usually legal, but also ethical) to avoid causing pollution of the natural environment, including water bodies. Potential sources of pollution are identified as:
- Chemical Storage
- Fuel Storage Area (HFO)
- Milk Silos

These areas are also mapped on site layout.


Non-point sources need to be identified, like site drainage channels or stormwater runoff or even another point sources like waste disposal facilities, leaks of oil or chemicals, maintenance facilities (where oils and chemicals are used), electrical transformers (a potential source of oils and PCBs).

1.3.6 *On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.*  **in progress**

Comment Site has identified and mapped onsite important water areas. These include:
- Water Turbines (02 Nos)
- Wastewater Treatment Plant
- Portable Water Tank
- Fire water Tanks

These IWRA's are under surveillance of site management.
Iwra feature should be listed, with a description of what it is and its status..

Finding No: TNR-002443

1.3.7 *Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be identified and used to inform the evaluation of the plan in 4.1.2.*  **No**

Comment Site has identified the costs for water extraction, processing, quality monitoring and effluent processing and disposal. No cost has been imposed by the government for extraction however the site has to pay to irrigation department for disposing its treated water through irrigation canal.




The water-related costs include more than just procurement of water and treatment of water, they include all costs related to understanding and managing water stewardship. The site should be aware of the scope, for both short-term and long-term investments and be able to demonstrate it has the financial commitment and resources to support them. The cost analysis should consider, but not be limited to items such as: payment for experts, fees and levies, data collection, technical studies, capital investments and depreciations, risk mitigation actions, stakeholder engagement activities, external communications and staffing, being either 'one-time' actions or events, or operational expenses, and for ongoing monitoring, maintenance and management of water resources. For further guidance, please advice to AWS standard 2.0 guidance.

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Finding No: TNR-002442

1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
Comment	<p>The site has adequate arrangements to ensure access to safe drinking water, sanitation and hygiene (WASH) for all workers. Site is also using a self-assessment tool for evaluating access to water sanitation and hygiene (WASH) at workplace. It covers the workplace facilities related to water supply, sanitation and hygiene.</p> <p>Site has maintained separate toilets for males and females also evaluated the adequacy of number of toilets for each gender.</p>	
1.4	<i>Gather data on the site's indirect water use, including: its primary inputs; the water use embedded in the production of those primary inputs the status of the waters at the origin of the inputs (where they can be identified); and water used in out-sourced water-related services.</i>	
1.4.1	<i>The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.</i>	 Yes
Comment	<p>Raw Milk Suppliers are identified as indirect water user. Raw Milk contains around 87 % of water. site also produces dried milk powder and the water evaporated in this process is recovered and reused in process, which is also evident in site water balance.</p> <p>Site is extensively engaged with farmers and milk collection centers on water efficient processes in its supplies.</p>	
1.4.2	<i>The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.</i>	 Yes
Comment	<p>No such outsourced services in catchment.</p>	
1.5	<i>Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH</i>	
1.5.1	<i>Water governance initiatives shall be identified, including catchment plan(s), water-related public policies, major publicly-led initiatives under way, and relevant goals to help inform site of possible opportunities for water stewardship collective action.</i>	 Yes
Comment	<p>Site management has actively participated in catchment's water governance improvement by raising the awareness of the local community and by implementation of water related improvement projects within factory & in catchment. They have publicly led initiatives are prioritized on basis of shared water challenges. some of initiatives are as follow;</p> <ul style="list-style-type: none"> • Installation of 3 water filtration plants at Kabirwala, Khanewal and Allahbad • Participated in Veno canal cleaning (silt removal) • Tree plantation drives • Milk collection centers • Moisture sensor irrigation system • Among others. 	
1.5.2	<i>Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.</i>	 Yes
Comment	<p>Site has identified the applicable legal requirements and process to review the compliance status. "List of applicable requirements" and "AWS Team & Compliance Evaluation Process" are attached.</p>	
1.5.3	<i>The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.</i>	 Yes

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Comment	Site has conducted hydrological study for the catchment, and it includes catchment water balance (@ page 84 of attached study). Catchment water extraction is higher than its recharge, which is causing in drop in ground water levels.	
	The catchment is an agricultural area where water is supplied through canal (surface water) and tube wells (groundwater). Approximately 30 % of water used for agriculture is canal water rest comes through tube wells. the canal has no seasonal variance but got scheduled closure for silt removal annually. Due to increased ground water extraction the levels have been depleted over the years and ground water balance is under stress.	
1.5.4	<i>Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.</i>	 Obs.
Comment	The water quality of the catchment is mostly good. However, the surface water and shallow water is being contaminated with sewage. The drinking water quality is degrading in the catchment (refer to the attached study).	
1.5.5	<i>Important Water-Related Areas shall be identified, and where appropriate, mapped, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.</i>	 No
Comment	Site has not identified any important water related area in the catchment. On discussion with stakeholders, it appears that a Wastewater treatment plant is located at around 2 km from site and is meant to treat area sewage before disposal. This sewage treatment plant is not operating well and resulting sewage contamination in fresh water. This sewage treatment plant could be an important water related area in the catchment.	
	Finding No: TNR-002271	
1.5.6	<i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i>	 No
Comment	Site is located in an agricultural area with proper irrigation infrastructure. Site is also engaged with the governance body (irrigation department) for maintenance of infrastructure (silt removal from canal).	
	Finding No: TNR-002447	
1.5.7	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Obs.
Comment	The site has assessed the WASH conditions in the catchment. The catchment major issues related to WASH are bad drinking water quality and poor sanitation system.	
1.6	<i>Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.</i>	
1.6.1	<i>Shared water challenges shall be identified and prioritized from the information gathered.</i>	 Yes

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Comment	<p>The Site has identified the stakeholders related to the water in the catchment. These stakeholders were engaged and to identify the shared water related challenges. The communities highlighted the following challenges</p> <p>Sewage water issues includes:</p> <ul style="list-style-type: none">- Bad odor- Sewage line leakages- Blocked sewage and spillover <p>Whereas freshwater issues includes:</p> <ul style="list-style-type: none">- Bad drinking water quality- Over use of groundwater- Malfunctioning of government filtration plants <p>With stakeholder consultation, site has prioritized following two challenges to work on.</p> <ul style="list-style-type: none">- Bad drinking water quality- Over use of groundwater	
1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	<p>Site has identified initiatives to address shared water challenges including;</p> <ul style="list-style-type: none">- Maintenance of 3 water filtration plants at Kabirwala, Khanewal and Allahbad- Participated in canal cleaning (silt removal)- Tree plantation drives- Water conservation projects at factory and milk collection centers	
1.7	<i>Understand the site's water risks and opportunities: Assess and prioritize the water risks and opportunities affecting the site based upon the status of the site, existing risk management plans and/or the issues and future risk trends identified in 1.6.</i>	
1.7.1	<i>Water risks faced by the site shall be identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.</i>	 Yes
Comment	<p>Site has identified the water related risks and prioritized them on basis of likelihood and impact based priority matrix. Following risks are defined high priority.</p> <ul style="list-style-type: none">- Well pump/casing malfunctioning- Well contamination	
1.7.2	<i>Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.</i>	 Yes
Comment	<p>Site is actively looking for opportunities to improve its water balance i.e. to reduce water consumption. Some of opportunities identified are</p> <ul style="list-style-type: none">- Recovery of cow water for Powder Milk Production- Recycling of treated effluent for gardening and landscaping- Improvements in process and CIPs- etc	
1.8	<i>Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.</i>	
1.8.1	<i>Relevant catchment best practice for water governance shall be identified.</i>	 Yes
Comment	<p>Site is supporting irrigation department (government water governance body) in desilting of canal, which is used for agriculture water supply in the catchment.</p>	

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1.8.2	<i>Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.</i>	 Yes
Comment	<p>The site has initiated some projects of to improve water efficiency improvement and reduction in water conservation in the catchment. During the audit a cattle farm (milk supplier) was visited where site encouraged and collaborated with local farmer on following projects</p> <ul style="list-style-type: none">- Installation of water efficient sprinkler nozzles for heat rebate system- Moisture analyzer-based irrigation of land to harvest animal feed crops.	
1.8.3	<i>Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.</i>	 Yes
Comment	<p>The catchment is facing bad quality of drinking water (from shallow table). Site has installed and operating 3 water filtration (drinking water) plants at Kabirwala, Khanewal and Allahbad (nearby communities) to provide safe drinking water to the communities.</p>	
1.8.4	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Obs.
Comment	<p>Site has not identified any catchment IWRA and needs to reconsider catchment for IWRA.</p>	
1.8.5	<i>Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.</i>	 Yes
Comment	<p>The site has adequate arrangements to ensure access to safe drinking water, sanitation and hygiene (WASH) for all workers. Site is also using a self-assessment tool for evaluating access to water sanitation and hygiene (WASH) at workplace. It covers the workplace facilities related to water supply, sanitation and hygiene.</p> <p>Site has maintained separate toilets for males and females also evaluated the adequacy of number of toilets for each gender.</p>	

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2	STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	<i>Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.</i>	
2.1.1	<i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i> <ul style="list-style-type: none"> - That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes - That the site implementation will be aligned to and in support of existing catchment sustainability plans - That the site's stakeholders will be engaged in an open and transparent way - That the site will allocate resources to implement the Standard. 	 No
Comment	<p>The factory has established commitment to document which is endorsed by Factory Manager Mr. Rizwan Islam (dated Dec, 2019). The commitment statement is covering almost all aspects of alliance for water stewardship standard.</p> <p>The site is following the corporate water stewardship policy which is also being followed company wide and found satisfactory.</p> <p>The policy and commitment documents found readily available, on company web-site, for public or any interested party. (https://www.nestle.pk/csv/water/alliance-for-water-stewardship)</p> <p style="text-align: right;">Finding No: TNR-002450 Finding No: TNR-002451</p>	
2.2	<i>Develop and document a process to achieve and maintain legal and regulatory compliance.</i>	
2.2.1	<i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i> <ul style="list-style-type: none"> - Identification of responsible persons/positions within facility organizational structure - Process for submissions to regulatory agencies. 	 Yes
Comment	<p>Site has identified the hierarchy for site legal compliance responsibility. Applicable legal requirements are also documented (1.5.2_List_of_legal_compliances) team of AWS champions with their roles and responsibilities (KBF_legal_team_2022.pdf).</p> <p>Site SHE Manager is responsible for identification of water related legal requirements and monitoring their compliance.</p>	
2.3	<i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i>	
2.3.1	<i>A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</i>	 Obs.
Comment	<p>Site is following the "Nestlé Commitment on Water Stewardship" part of the Global "Nestlé Policy on Environmental Sustainability". This defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</p>	

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2.3.2

A water stewardship plan shall be identified, including for each target:

- *How it will be measured and monitored*
- *Actions to achieve and maintain (or exceed) it*
- *Planned timeframes to achieve it*
- *Financial budgets allocated for actions*
- *Positions of persons responsible for actions and achieving targets*
- *Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.*



in progress

Comment

Site has identified water stewardship initiatives. The initiatives are focused on water governance, sustainable water balance, water quality, WASH and indirect water use. These initiatives cover both the actions related to site and the catchment.

Also, site has prepared Water Stewardship Plan which covers the target for action items, cost involved, target dates, responsibilities and benefits.

Finding No: TNR-002453

Finding No: TNR-002454

2.4

Demonstrate the site's responsiveness and resilience to respond to water risks

2.4.1

A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.



Yes

Comment

Site water source and risks identified are independent of public sector/ infrastructure agencies. However, the site is disposing its treated effluents through government infrastructure i.e. canal network. Site management is actively engaged with the Irrigation Department for better governance of infrastructure.

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3 STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts	
3.1	Implement plan to participate positively in catchment governance.
3.1.1	Evidence that the site has supported good catchment governance shall be identified. ✓ Yes
Comment	Site management actively participate in catchment's water governance improvement. Following actions found aligned with the good catchment governance. - Tree Plantation activities in collaboration with EPA - Consultative meeting on site be hosted by Nestle, inviting relevant stakeholders - leaning and desilting of The Venoi Canal. This includes engaging with the local authorities (irrigation department) to ensure community responsibility.
3.1.2	Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented. ✓ Yes
Comment	This indicator refers to water rights not already covered by legal and regulatory mechanisms as captured in 3.2.2. The catchment is facing bad quality of drinking water (from shallow table). Site has installed and operating 3 water filtration (drinking water) plants at Kabirwala, Khanewal and Allahbad (nearby communities) to provide safe drinking water to the communities. As there is no such legal requirement so no obligation on site, but still site is considering people right to safe drinking water by installing, operating and maintaining (physically and quality prospective).
3.2	Implement system to comply with water-related legal and regulatory requirements and respect water rights.
3.2.1	A process to verify full legal and regulatory compliance shall be implemented. ✓ Yes
Comment	Site has identified the hierarchy for site legal compliance responsibility. applicable legal requirements are also documented (list of legal compliance/ attached) team roles and responsibilities. Site SHE Manager is responsible for identification of water related legal requirements and monitoring their compliance. No non-compliance identified during last couple of years. Compliance evaluation is also agenda item of annual IMS management review, as well as they have separate compliance evaluation process. Same process attached for 1.5.2 is applicable.
3.2.2	Where water rights are part of legal and regulatory requirements, measures identified to respect the water rights of others including Indigenous peoples, shall be implemented. ✓ Yes
Comment	No such legal requirement applicable.
3.3	Implement plan to achieve site water balance targets.
3.3.1	Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified. ➔ in progress

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Comment	<p>Site has variety of products and processes and they have set a KPI m3 of water used per ton of production. But this is sometimes leading, depending on what category of product has been produced. Like water consumption in production of 1 ton UHT milk is much low as compared to production of 1 ton powder milk.</p> <p>Over couple of years site is producing more and more powder causing there m3 per ton of production target very offset. However, site management has engaged the corporate top rationalize the water consumption KPI based on product ratios.</p> <p>I addition to above site has identified and implemented the action for sustainable water balance (mention in attached WS).</p> <p>The site presented data showing the annual performance against water balance as evidence but not as a progress towards meeting water balance.</p>	
		Finding No: TNR-002455
3.3.2	<i>Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented</i>	 in progress
Comment	<p>The site is not in a water scarce area however catchment water balance is under stress. Site has set target to reduce 5 % water consumption (m3/ton of production) every year. But (as mentioned in 3.3.1) site has some contains with reference to its product mix.</p>	
		Finding No: TNR-002375
3.3.3	<i>Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.</i>	 Yes
Comment	<p>No such legal binding.</p>	
3.4	<i>Implement plan to achieve site water quality targets</i>	
3.4.1	<i>Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.</i>	 Yes
Comment	<p>Site has identified actions in WSP, to maintain and monitor site water quality targets for ground water (source) and effluent. Site is performing 3rd party quality monitoring for its ground water and effluents on quarterly basis. All the report found in acceptable norms.</p>	
3.4.2	<i>Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.</i>	 Obs.
Comment	<p>The site is disposing a portion of its effluents (about 8 %) through septic tank and soakage pits arrangement which is eventually going to underground water table. Site has around 18 such soakage pits. However, no quality monitoring plan in place. One random test report for one soakage pit was available as attached.</p>	
3.5	<i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i>	
3.5.1	<i>Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.</i>	 Obs.
Comment	<p>Site has adequately identified and maintained its onsite IWRA's. However, no IWRA identified in the catchment and needs to reconsider catchment for IWRA's.</p>	
3.6	<i>Implement plan to provide access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers at all premises under the site's control.</i>	

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3.6.1	<i>Evidence of the site's provision of adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite shall be identified and where applicable, quantified.</i>	 Yes
Comment	<p>The site has adequate arrangements to ensure access to safe drinking water, sanitation and hygiene (WASH) for all workers, as well as contractors. Site is also using a self-assessment tool for evaluating access to water sanitation and hygiene (WASH) at workplace. It covers the workplace facilities related to water supply, sanitation and hygiene.</p> <p>Site has maintained separate toilets for males and females also evaluated the adequacy of number of toilets for each gender.</p>	
3.6.2	<i>Evidence that the site is not impinging on the human right to safe water and sanitation of communities through their operations, and that traditional access rights for indigenous and local communities are being respected, and that remedial actions are in place where this is not the case, and that these are effective.</i>	 Yes
Comment	<p>There is no evidence that site is impinging on the human right to safe water and sanitation of communities through their operations. Instead, Site has installed and operating 3 water filtration (drinking water) plants at Kabirwala, Khanewal and Allahbad (nearby communities) to provide safe drinking water to the communities. This was also acknowledged by community representatives during the stakeholder consultation.</p>	
3.7	<i>Implement plan to maintain or improve indirect water use within the catchment:</i>	
3.7.1	<i>Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.</i>	 Obs.
Comment	<p>Raw Milk Suppliers are identified as indirect water user. Raw Milk contains around 87% of water. site also produces dried milk powder and the water evaporated in this process is recovered and reused in process, which is also evident in site water balance.</p> <p>Site is extensively engaged with farmers and milk collection centers on water efficient processes in its supplies.</p>	
3.7.2	<i>Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified.</i>	 Yes
Comment	<p>Site has engaged its milk suppliers and milk collection centers for water conservation initiatives. Site is also collecting water consumption data for its milk collection center. Also, the site has initiated some projects to improve water efficiency improvement and reduction in water conservation in the catchment. During the audit a cattle farm (milk supplier) was visited where site encouraged and collaborated with local farmer on following projects</p> <ul style="list-style-type: none">- Installation of water efficient sprinkler nozzles for heat rebate system- Moisture analyzer-based irrigation of land to harvest animal feed crops.	
3.8	<i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i>	
3.8.1	<i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i>	 Yes
Comment	<p>Site water source and risks identified are independent of public sector/ infrastructure agencies. However, the site is disposing its treated effluents through government infrastructure i.e. canal network. Site management is actively engaged with the Irrigation Department for better governance of infrastructure. Site is also engaged in canal desilting of canals in catchment for better distribution of water.</p>	

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3.9	<i>Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.</i>	
3.9.1	<i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i>	 Yes
Comment	Site is supporting Irrigation department (government water governance body) in desilting of canal, which is used for agriculture water supply in the catchment.	
3.9.2	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	 Yes
Comment	The site has initiated some projects of to improve water efficiency improvement and reduction in water conservation in the catchment. During the audit a cattle farm (milk supplier) was visited where site encouraged and collaborated with local farmer on following projects - Installation of water efficient sprinkler nozzles for heat rebate system - Moisture analyzer-based irrigation of land to harvest animal feed crops.	
3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
Comment	The catchment is facing bad quality of drinking water (from shallow table). Site has installed and operating 3 water filtration (drinking water) plants at Kabirwala, Khanewal and Allahbad (nearby communities) to provide safe drinking water to the communities.	
3.9.4	<i>Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented.</i>	 Obs.
Comment	Site has not identified any catchment IWRA and needs to reconsider catchment for IWRA.	
3.9.5	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes
Comment	The site has adequate arrangements to ensure access to safe drinking water, sanitation and hygiene (WASH) for all workers. Site is also using a self-assessment tool for evaluating access to water sanitation and hygiene (WASH) at workplace. It covers the workplace facilities related to water supply, sanitation and hygiene. Site has maintained separate toilets for males and females also evaluated the adequacy of number of toilets for each gender.	

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4 STEP 4: EVALUATE - Evaluate the site's performance.	
4.1	<i>Evaluate the site's performance in light of its actions and targets from its water stewardship plan and demonstrate its contribution to achieving water stewardship outcomes.</i>
4.1.1	<i>Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.</i>
Comment	<p>The organization is continuously monitoring performance against AWS plan. The performance is reviewed in OMP review meeting.</p> <p>The performance against WSP for 2021 has been reviewed and performance report generated as attached.</p>
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>
Comment	<p>Site has not focused on financial savings but the water conservation. Site has implemented many onsite projects to reduce the use of fresh water, project details and cost associated with these projects are mentioned in WPS attached.</p>
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>
Comment	<p>Site is located in a water stressed area. So site has implemented many onsite and catchment projects to reduce the use of fresh water, project details, and cost associated with these projects are mentioned in WPS attached. some of the prominent projects are;</p> <ul style="list-style-type: none"> - Recovery of cow water for Powder Milk Production - Recycling of treated effluent for gardening and landscaping - Improvements in process and CIPs - Installation of water efficient sprinkler nozzles for heat rebate system (at cattle farm in catchment) - Moisture analyzer-based irrigation of land to harvest animal feed crops. (at cattle farm in catchment)
4.2	<i>Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.</i>
4.2.1	<i>A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified.</i>
Comment	No water related emergency occurred during last couple of years
4.3	<i>Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the effectiveness of the site's engagement process.</i>
4.3.1	<i>Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.</i>

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Comment	<p>The site has organized and participated in many event to share & consult it water stewardship performance with the stakeholder. Some of these activities are as follow</p> <ul style="list-style-type: none">- Creating shared value program- Tree plantation sessions- Water governance meetings with government officials- Trainings and awareness sessions- etc. <p>In particular last stakeholder consultation session was organized on 19th May, 2022, in which site performance on AWS in 2021 was discussed and also the shared water challenges and mitigation measures were discussed.</p>	
4.4	<i>Evaluate and update the site's water stewardship plan, incorporating the information obtained from the evaluation process in the context of continual improvement.</i>	
4.4.1	<i>The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be identified.</i>	 Obs.
Comment	<p>Site has variety of products and processes and they have set a KPI m3 of water used per ton of production. But this is sometimes leading, depending on what category of product has been produced. like water consumption in production of 1 tom UHT milk is much low as compared to production of 1 ton powder milk.</p> <p>Over couple of years site is producing more and more powder causing there m3 per ton of production target very offset. However, site management has engaged the corporate top rationalize the water consumption KPI based on product ratios.</p>	

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5	STEP 5: COMMUNICATE & DISCLOSE - Communicate about water stewardship and disclose the site's stewardship efforts	
5.1	<i>Disclose water-related internal governance of the site's management, including the positions of those accountable for legal compliance with water-related local laws and regulations.</i>	
5.1.1	<i>The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.</i>	 Yes
Comment	Site HSE manager is responsible for water related legal compliance but the ultimately accountability is with factory manager. Site AWS Legal Compliance hierarchy and Site AWS Team has been published on the web site and any one can access that (https://www.nestle.pk/csv/water/alliance-for-water-stewardship).	
5.2	<i>Communicate the water stewardship plan with relevant stakeholders.</i>	
5.2.1	<i>The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.</i>	 Yes
Comment	Site is actively engaged with stakeholders on its AWS plans and performances. In particular last stakeholder consultation session was organized on 19th May, 2022, in which site performance on AWS in 2021 and WSP 2022 was discussed and also the shared water challenges and mitigation measures were discussed. Site also has published it AWS plan and performances on website (https://www.nestle.pk/csv/water/alliance-for-water-stewardship)	
5.3	<i>Disclose annual site water stewardship summary, including: the relevant information about the site's annual water stewardship performance and results against the site's targets.</i>	
5.3.1	<i>A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.</i>	 Yes
Comment	Alliance for water stewardship Journey at Nestlé-KBF 2021-22 has been summarized published on website for stakeholders and public. Site also has published its performance against WSP 2021 with benefit evaluations (https://www.nestle.pk/csv/water/alliance-for-water-stewardship)	
5.4	<i>Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges; engagement with stakeholders; and co-ordination with public-sector agencies.</i>	
5.4.1	<i>The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.</i>	 Yes
Comment	Site has published the Shared Water Challenges and efforts to address these on website (attached here as well).	
5.4.2	<i>Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.</i>	 No
Comment	In addition to formal disclosure, sites are required to communicate efforts to address shared water challenges to relevant stakeholders in a manner that is both active and accessible. This means that the site should not be passive but instead should undertake efforts to provide such information to interested stakeholders.	

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5.5	Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.	
5.5.1	Any site water-related compliance violations and associated corrections shall be disclosed.	<div><div>✓</div><div>Yes</div></div>
Comment	No water related noncompliance has been reported.	
5.5.2	Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.	<div><div>✓</div><div>Yes</div></div>
Comment	Corrective actions are not necessary as there have not been any compliance violations.	
5.5.3	Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.	<div><div>Q</div><div>Obs.</div></div>
Comment	Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed. No water related noncompliance has been reported.	

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Photographic Evidence from Audit



Yes

Comment Photographic evidences of audit are attached. These includes photos of stakeholder interviews, site and the catchment visits.



Chemical Storage silos (Site Visit).jpg



Fuel Storage (Site Visit).jpg



Fire water tank (Site Visit).jpg



Deep Well (Site Visit).jpg

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Water Filtration Plant at Allahbad (Catchment Visit).jpeg



Chemical Storage silos (Site Visit).jpg



Stakeholder Interview (Community Representatives).jpeg



Al Haseeb Farm - Sprinkler nozzle (Catchment Visit).jpeg

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Stakeholder Interview (Environmental Protection Agency Representative).jpeg

[illegible]

Audit Attendance Sheet.jpeg



Stakeholder Interview (Al Haseeb Farm owner).jpg



Drinking water station1 (Site Visit).jpg

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Stakeholder Interview (Irrigation Department Representative).jpeg



Al Haseeb Farm - moisture sensor irrigation (Catchment Visit).jpeg



Drinking water station2 (Site Visit).jpg



Waste Water Treatment Plant (Site Visit).jpg

Previous Findings

All non-conformities raised in the previous audit have been satisfactorily closed.



Yes

Comment

No non-conformities were raised in previous audit.