



FASHIONAGE
CORPORATION
PVT. LTD.

**14/1, MILESTONE,
MATHURA ROAD,**

**SECTOR-27B,
FARIDABAD**

WATER FOOTPRINT

REPORT

YEAR 2025



ABOUT THE REPORT

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INTRODUCTION

This report assesses the water footprint of Fashionage Pvt. Ltd., a garment manufacturing facility, in accordance with ISO 14046, Water Footprint Network (WFN) & WRI methodology.

The water footprint is categorized into:

- Blue Water Footprint (BWF): Consumption of surface and groundwater resources.
- Grey Water Footprint (GWF): Volume of water required to dilute pollutants to meet water quality standards.
- Green Water Footprint: Rainwater stored in soil and used by vegetation (mainly relevant to agriculture).

The assessment is based on the annual water consumption, reuse, and wastewater discharge data provided by the facility.



OBJECTIVE OF THE REPORT

Purpose and Objectives

- Evaluate the overall water footprint of facility operations.
- Identify opportunities to improve water efficiency and enhance water reuse.
- Support sustainable water management practices.
- Align with recognized frameworks including ISO 14046, ISO 46001, GRI 303, and CDP Water.

Scope and Boundaries

The assessment covers all operational activities within the Fashionage facility, including:

- Production and finishing operations
- Utility systems (boilers, RO systems) Domestic water use (drinking, sanitation, and facility cleaning)
- Administrative and support areas

Exclusions

- The following are excluded from the assessment boundary:
- Rainwater and stormwater drainage, unless captured and used as a resource.
- Water consumption from third-party suppliers or outsourced activities.



ABOUT
THE ORGANIZATION



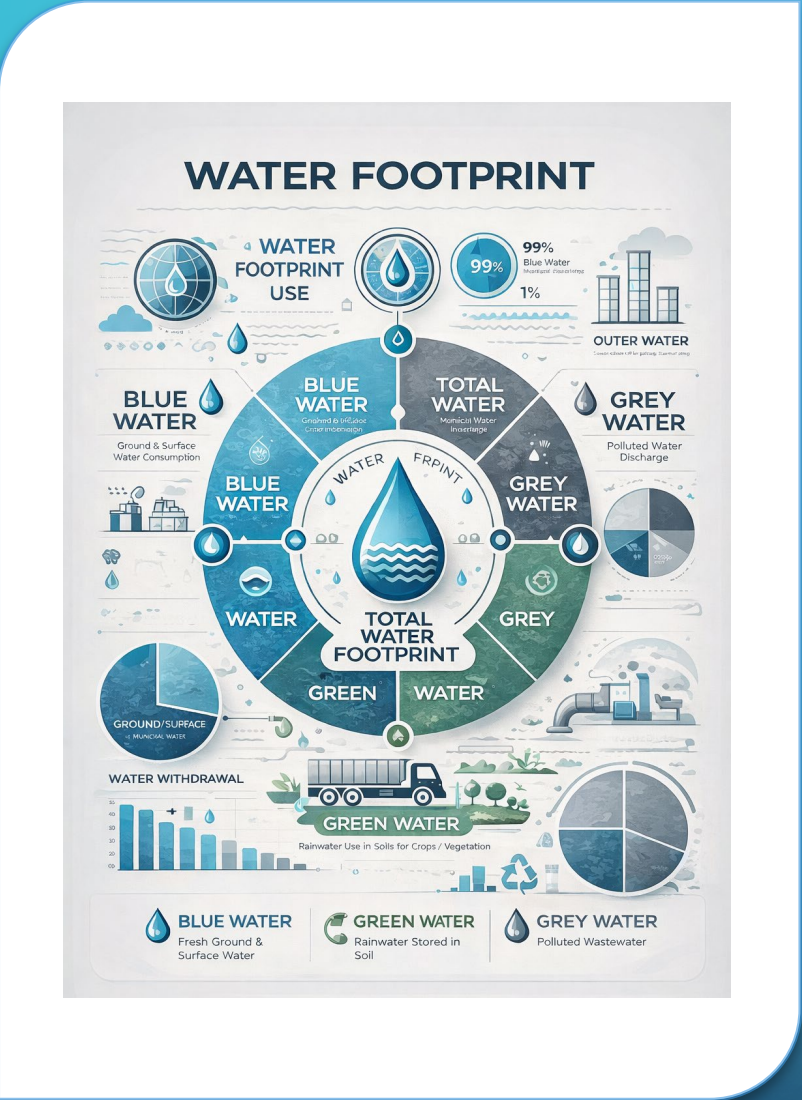
Serving five major Scandinavian designer brands, Fashionage Corporation Pvt. Ltd. maintains an average in-house production of 120,000 woven and knitted garments monthly. Utilizing the latest CAD systems for pattern processing and in-house laboratory testing managed by skilled textile engineers, the company ensures all fabrics meet international standards.

The leadership team comprises Managing Director Amarjit S. Bagga and Directors Harbhajan S. Bagga (Purchasing and Production), Rajinder S. Bagga (Production), and Prabhjit S. Bagga (Merchandising).

As a 100% export-oriented garment manufacturer, the company recognizes the impact of the textile and apparel industry on climate change and has taken steps to mitigate its carbon footprint.



ABOUT THE REPORT



This Water Footprint Report for Fashionage, provides a detailed assessment of the organization’s water consumption, usage patterns, and discharge processes. It follows globally recognized methodologies, including ISO 14046, Water Footprint Network (WFN) & WRI, to categorize water usage into blue, green, and grey water footprints. WRI Aqueduct tool is used to understand the water stress of the area.

The report aims to identify opportunities for water conservation, efficiency improvements, and regulatory compliance. It includes a comprehensive water balance analysis, evaluates the impact of water withdrawals on local resources, and suggests sustainable water management strategies.

By understanding and optimizing water usage, the unit can work towards reducing its environmental footprint, enhancing operational sustainability, and aligning with global sustainability goals.

INTENDED USE & USERS OF THE REPORT

This report is a voluntary communication to various stakeholders of Fashionage, including customers, management, investors, regulatory bodies, and the public. It aims to provide transparency on the company's water footprint and water balance, ensuring responsible water usage and sustainability. The report serves as a tool to monitor water consumption, recycling, and discharge, helping stakeholders track performance over time and establish a foundation for future water conservation and efficiency initiatives.

Management Details:

Prabhjit S. Bagga | Director

Verifier: Mr. Rajiv Chaturvedi

Verifier Certificate: ISO 14064-1, ISO 14064-2 & Water Auditor

Certificate No.: 117874925 / 165946641 / CERT _3669744_ 4

Issued by: SGS India Pvt. Ltd. & Indian Plumbing Association

Accounting & Reporting by:

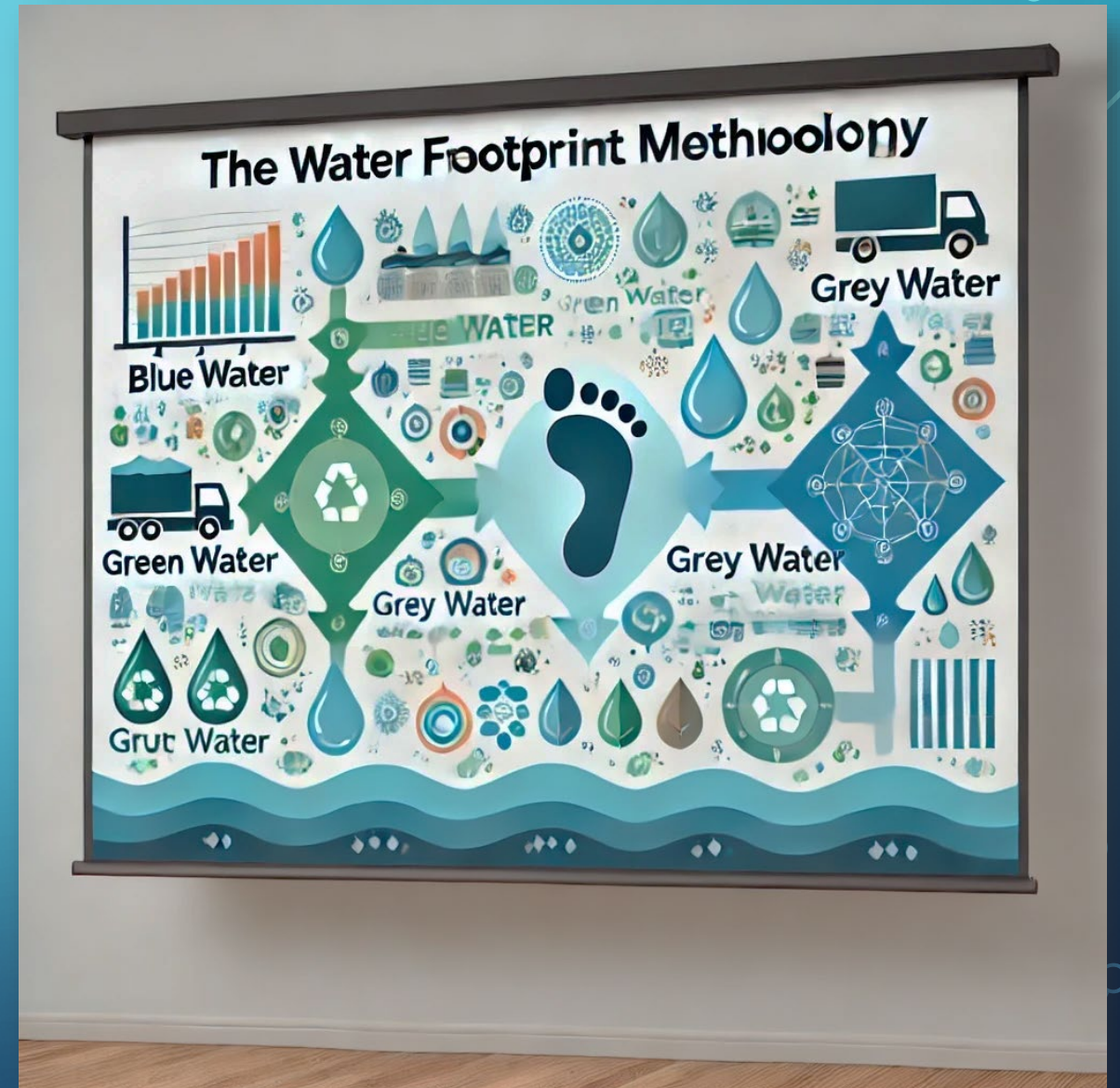
Green Compliance Services

The background features a close-up of a water droplet falling into a pool of water, creating concentric ripples. A dark, rounded rectangular box is centered over the ripples. Inside this box, the text 'WATER FOOTPRINT' and 'METHODOLOGY' is written in white, bold, sans-serif font, with each line underlined. Light blue circuit-like lines with circular nodes extend from the left and right sides of the dark box. The overall color palette is shades of blue and white.

WATER FOOTPRINT METHODOLOGY

This report evaluates the water footprint of Fashionage, a garment manufacturing unit, using the ISO 14046, WRI, Water Footprint Network (WFN) methodologies.

The water footprint is categorized into **Blue Water Footprint (BWF)**, **Grey Water Footprint (GWF)**, and **Green Water Footprint (GWF)**. The assessment is based on the yearly water consumption and discharge data provided by the organization.





1. Standards Used:

ISO 14046 – Life Cycle Assessment-based approach

Water Footprint Network (WFN) – Blue, Green, and Grey water assessment

2. Key Components of Water Footprint:

- **Blue Water** – Surface & groundwater consumption
- **Green Water** – Rainwater stored in soil & used by plants
- **Grey Water** – Water needed to dilute pollutants to meet quality standards



3. Data Collection:

- Water intake records (borewell, municipal supply)
- Water usage (industrial, domestic, cooling, washing)
- Discharge data (ETP-treated, RO waste, municipal sewer)
- Pollution concentration limits (BOD, COD, TSS)

4. Calculation Approach:

- Water Balance Analysis: Ensuring input = output + losses
- Blue, Green, and Grey Water Quantification
- Impact Assessment & Efficiency Evaluation

5. Objective:

- Optimize water usage & reduce footprint
- Improve water efficiency in operations
- Ensure regulatory compliance & sustainability

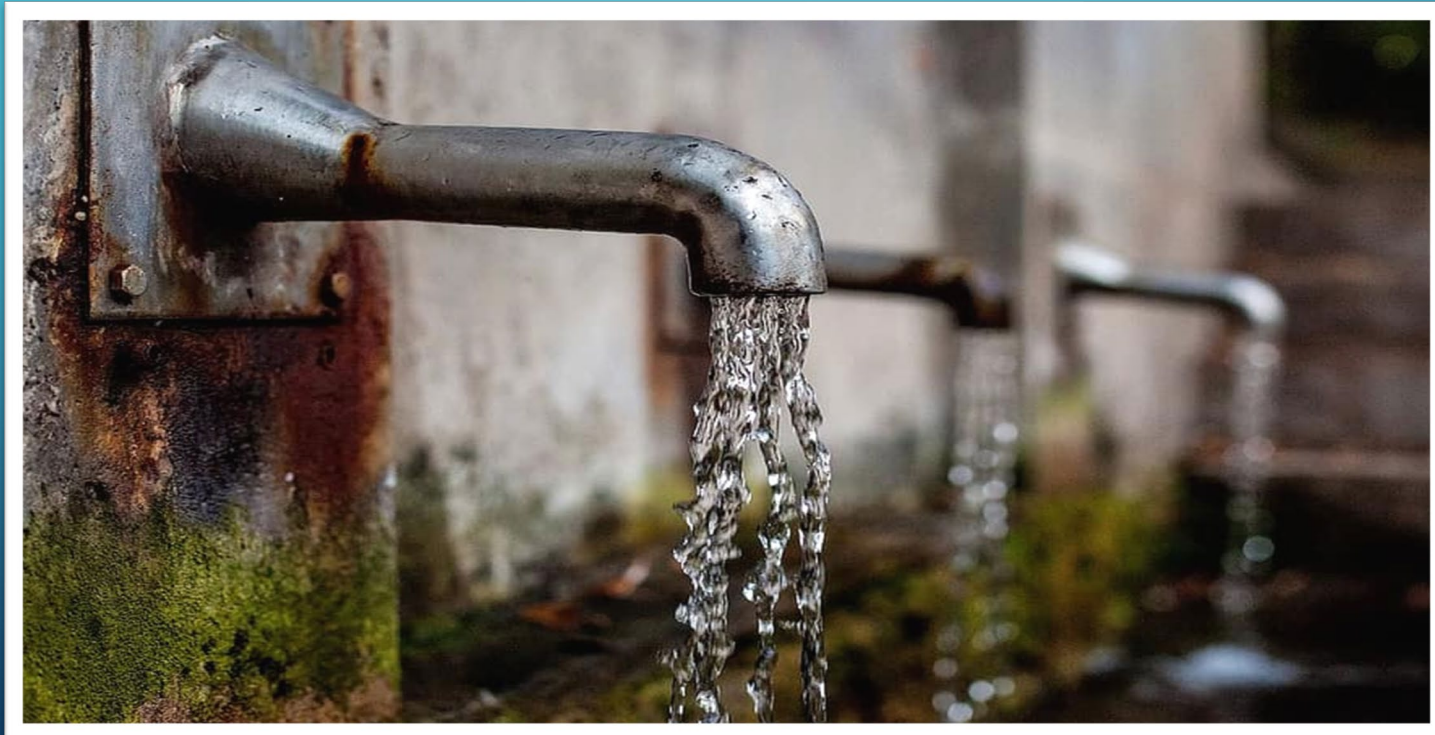
WATER FOOTPRINT CALCULATION & ANALYSIS

Water Footprint Type	Definition	Data Required	Methodology
Blue Water Footprint	Freshwater consumed from surface water (rivers, lakes) or groundwater sources.	Borewell/ municipal water intake	(ISO 14046/WFN)
		Wastewater discharge	
		RO & ETP treatment data	
Green Water Footprint	Rainwater used directly for production or absorbed by soil and plants.	Rainwater harvesting data	(ISO 14046/WFN)
		Crop/land area (for agriculture-related use)	
Grey Water Footprint	Freshwater required to dilute pollutants to safe environmental levels.	Effluent water quality data	(ISO 14046/WFN)
		Pollutant concentration limits	
		ETP discharge values	
Total Water Footprint	Overall freshwater impact of the organization.	Water intake & consumption records	(ISO 14046/WFN)
		Effluent discharge & treatment data	

WATER FOOTPRINT CALCULATION & ANALYSIS

Assumptions for Natural Background & Maximum Permissible Limits (As per CPCB/WHO)

Parameter	Cmax (mg/L) (CPCB Norms)	Cnat (mg/L) (Assumed Natural Level)
BOD	30 mg/L	3 mg/L
COD	250 mg/L	30 mg/L
TSS	100 mg/L	20 mg/L



KEY FOCUS AREAS

Water Efficiency

Assessing **blue, green, and grey water consumption** to identify areas for reduction and efficiency improvement.

Wastewater Treatment & Reuse

Enhancing **Effluent Treatment Plant (ETP) performance** and optimizing **Reverse Osmosis (RO) wastewater reuse**.

Innovation & Technology

Investing in **water-efficient technologies** and process improvements to reduce wastage.

Data-Driven Decision Making

Utilizing **water balance assessments** and real-time monitoring to make informed decisions.

This Water Footprint Report serves as a guiding document to help Fashionage achieve its **sustainability goals**, minimize its environmental impact, and ensure long-term water security for future generations.


The background features a close-up of a water droplet falling into a pool of water, creating concentric ripples. A dark, rounded rectangular box is centered over the ripples. On either side of the box, there are stylized, light blue circuit-like lines with circular nodes. The text is white and bold, with underlines.

WATER FOOTPRINT ASSESSMENT - 2025

		Jan (Kl)	Feb (Kl)	Mar (Kl)	Apr (Kl)	May (Kl)	Jun (Kl)	Jul (Kl)	Aug (Kl)	Sep (Kl)	Oct (Kl)	Nov (Kl)	Dec (Kl)	Total (Kl)
Water Intake	Ground Water	703.0	690.0	806.0	662.0	688.0	833.0	868.0	842.0	870.0	754.0	807.0	834.0	9357.0
	Total Water Intake	703.0	690.0	806.0	662.0	688.0	833.0	868.0	842.0	870.0	754.0	807.0	834.0	9357.0
RO Intake	RO Intake - Groundwater	273.0	268.5	309.1	258.7	267.8	318.5	330.8	321.7	333.9	290.9	309.4	318.5	3600.5
Fire Tank	Fire Tank	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
Industrial Use	RO Fresh water - Boiler (Steam)	70.6	69.4	79.9	66.9	69.2	82.3	85.5	83.1	86.3	75.2	80.0	82.3	930.7
	Washing/Laundry	436.4	429.2	494.1	414.0	428.0	509.2	528.8	514.2	533.8	465.0	494.6	509.2	5756.3
	Total Industrial Use	507.0	498.6	574.0	480.9	497.3	591.5	614.3	597.4	620.1	540.2	574.6	591.5	6687.1
Domestic Use	RO Water Waste (Domestic Toilet/ Flush)	122.9	120.8	139.1	116.4	120.5	143.3	148.8	144.7	150.3	130.9	139.2	143.3	1620.2
	RO Permit Filtered Fresh (Drinking)	67.6	66.4	76.5	64.0	66.3	78.8	81.9	79.6	82.6	72.0	76.6	78.8	891.1
	RO Permit Filtered Fresh (Cooler, Hand Wash, Air Washer & Canteen)	12.0	11.8	13.6	11.4	11.8	14.0	14.6	14.2	14.7	12.8	13.6	14.0	158.4
	Total Domestic Use	202.4	199.1	229.2	191.8	198.5	236.2	245.3	238.5	247.6	215.7	229.4	236.2	2669.7
ETP	ETP Inlet - Washing	436.4	429.2	494.1	413.5	428.0	509.2	528.8	514.2	533.8	465.0	494.6	509.2	5755.8
	ETP Inlet - Boiler blowdown	7.0	6.9	7.9	6.6	6.9	8.2	8.5	8.2	8.5	7.4	7.9	8.2	92.1
	Total ETP Inlet	443.4	436.0	502.0	420.1	434.9	517.3	537.2	522.4	542.3	472.4	502.5	517.3	5848.0
	ETP Loss	6.6	6.5	7.4	6.2	6.4	7.7	8.0	7.7	8.0	7.0	7.5	7.7	86.7
	ETP Outlet	436.8	429.6	494.5	413.9	428.4	509.6	529.2	514.7	534.3	465.4	495.1	509.6	5761.2
Discharge to Municipal Sewer	ETP Outlet (Treated water)	436.8	429.6	494.5	413.9	428.4	509.6	529.2	514.7	534.3	465.4	495.1	509.6	5761.2
	Septic Tank - (75% Drinking water + Handwash + Toilet + Canteen)	185.5	182.4	210.0	175.8	182.0	216.5	224.8	218.6	226.9	197.7	210.3	216.5	2447.0
	Total Discharge in Municipal Sewer	622.4	612.0	704.6	589.7	610.4	726.1	754.0	733.3	761.2	663.1	705.4	726.1	8208.2

2025 Water Management

 Ground Water
9357 KL

 Fire Tank reserved
(balance)
120 KL

 Domestic Use
2670 KL

 Industrial Use
6686.55 KL

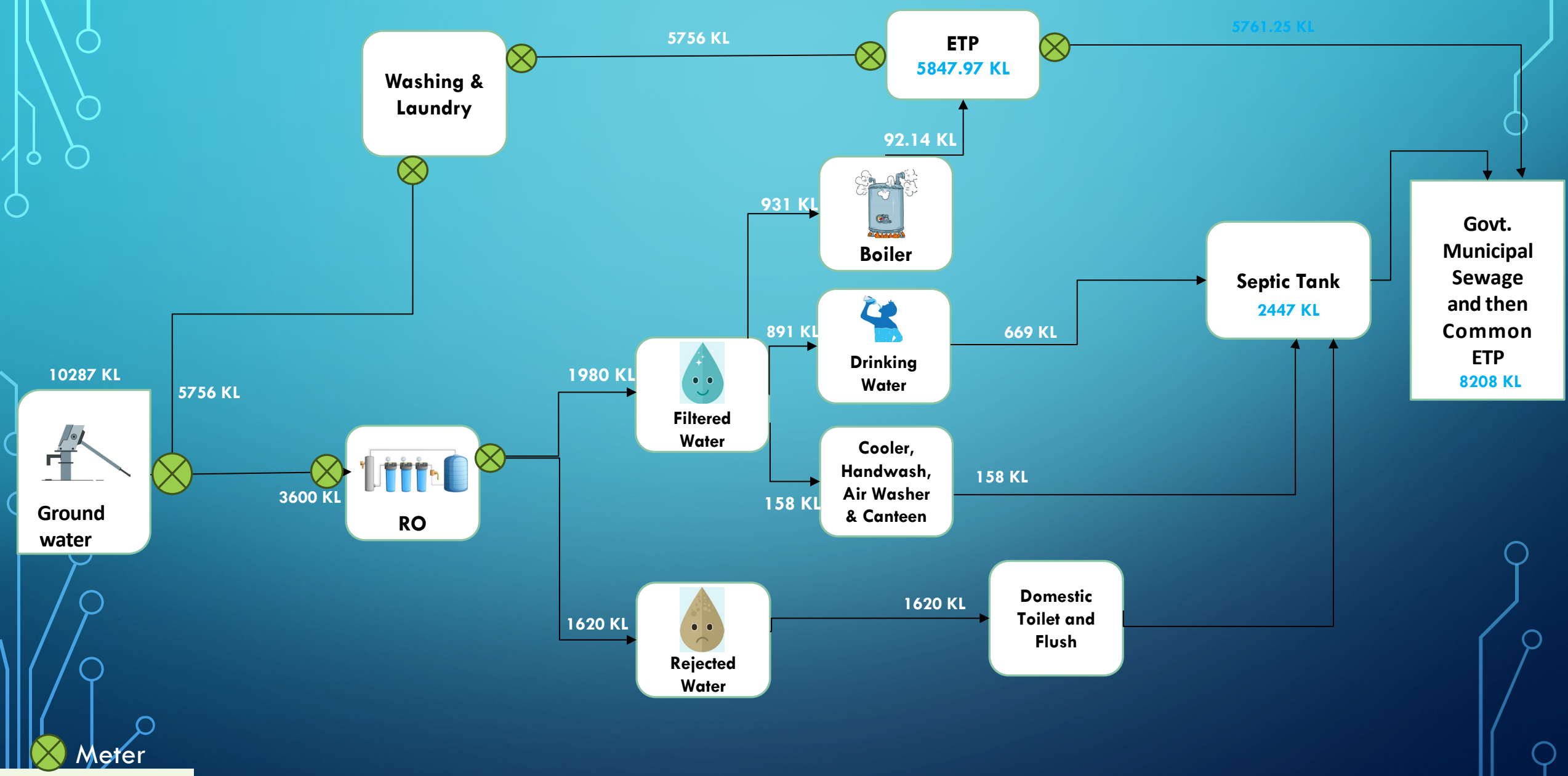
 RO Reject Water Reused
1620 KL

 Wastewater Discharge
8208 KL

ESG Highlights:

- Ground water is the primary water source.
- RO reject water is reused for flushing and domestic purposes.
- Wastewater is discharged to municipal sewage.

WATER FLOW CHART -2025



10287 KL
Ground water

Washing & Laundry

ETP
5847.97 KL

Septic Tank
2447 KL

Govt. Municipal Sewage and then Common ETP
8208 KL

RO

Filtered Water

Boiler

Drinking Water

Cooler, Handwash, Air Washer & Canteen

Rejected Water

Domestic Toilet and Flush

Meter

Water Footprint Type	Volume (KL/year)	Remarks
Blue Water Footprint	9357	Freshwater withdrawn from groundwater and municipal sources
Grey Water Footprint	Not Applicable	Wastewater discharged to municipal sewer for centralized treatment
Green Water Footprint	0	No rainwater-based agricultural activity

Statement:

The facility discharges wastewater into the municipal sewer system, where it undergoes centralized treatment. As there is no direct discharge of untreated wastewater into natural water bodies, the grey water footprint attributable to the facility is considered minimal and not calculated separately in this assessment.



CONCLUSION

Indicator	Value
Total Water Intake	9357 KL/year
Domestic Water Use	26%
Industrial Water Use	65%
Wastewater Discharge	8208 KL/year

The assessment of water consumption, discharge, and management practices indicates that the facility maintains a structured approach toward responsible water use and regulatory compliance. Water withdrawal, utilization, and disposal practices have been reviewed to ensure alignment with applicable environmental standards and sustainability principles. Continuous monitoring of water consumption, implementation of conservation measures, and responsible wastewater management contribute to minimizing environmental impact.

Moving forward, the facility should continue strengthening its water stewardship efforts by enhancing water efficiency, promoting reuse and recycling opportunities, and regularly monitoring performance indicators. Adoption of best management practices and periodic review of water management strategies will further support sustainable operations and responsible resource management.

Overall, the facility demonstrates commitment toward efficient water management and continuous improvement, contributing positively to environmental sustainability and long-term operational resilience.



WATER RISK ASSESSMENT
USING
WRI AQUEDUCT TOOL

Input address	Match address	Latitude	Longitude	Major Basin	Minor Basin	Aquifer	Country	Province	Stress
141, Milestone, Mathura Road, B, Pocket B, Sector 27, Faridabad, Haryana 121003, India	-	28.4534323	77.3070542	Ganges - Bramaputra	Yamuna 1	-	India	Haryana	Extremely High (>80%)

WATER RISK ASSESSMENT USING WRI AQUEDUCT TOOL

Statement:

To assess water-related risks at the facility location, the Aqueduct Water Risk Atlas developed by the World Resources Institute (WRI) was used. The Aqueduct tool provides global datasets and maps that evaluate water stress, drought risk, flood risk, and seasonal variability.

Interpretation:

The Aqueduct assessment indicates that the facility is in an Extremely High-Water Stress region, meaning that more than 80% of available water resources are withdrawn annually. This signifies intense competition for water among industrial, agricultural, and domestic users.

Operating in such a region highlights the importance of efficient water management, conservation measures, and responsible water stewardship to minimize pressure on local water resources. In response to the identified water risk, the facility has implemented the following measures:

- Continuous monitoring of water consumption
- Installation of water-efficient fixtures and equipment
- Identification of opportunities for water reuse and recycling
- Awareness programs to promote responsible water use among employees

RECOMMENDATIONS FOR WATER MANAGEMENT



Implement **treated water reuse for industrial processes** to further reduce intake needs.



Rainwater Harvesting – Implement systems to **reduce fresh water dependency**.



Evaluate and modify **RO reject water management strategies** to minimize waste.



Implement real-time **water monitoring systems** to track efficiency and identify further optimization opportunities.



Water Treatment Efficiency – Improve ETP efficiency to further **reduce pollutant loads** in discharge.



END OF REPORT