RICHA FASHION PRIVATE LIMITED

A-115, SECTOR 65,

NOIDA, UP

WATER FOOTPRINT REPORT YEAR 2025

ABOUT THE REPORT

Introduction

Objective of the Report

Water Footprint Methodology

Water Footprint Assessment

Conclusion & Recommendations

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

INTRODUCTION

This report assesses the water footprint of Richa Fashion 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.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

OBJECTIVE OF THE REPORT

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

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 Richa Fashion Pvt. Ltd. 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.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

ABOUT THE ORGANIZATION

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

Established on March 10, 2011, Richa Fashion Private Limited is a leading export house specializing in the manufacturing and trading of fashion garments and accessories. Since its inception, the company has made a mark in the international market, particularly in the export of ladies' woven garments.

Its dedication to quality, excellence, and safety has played a key role in building a strong global reputation.

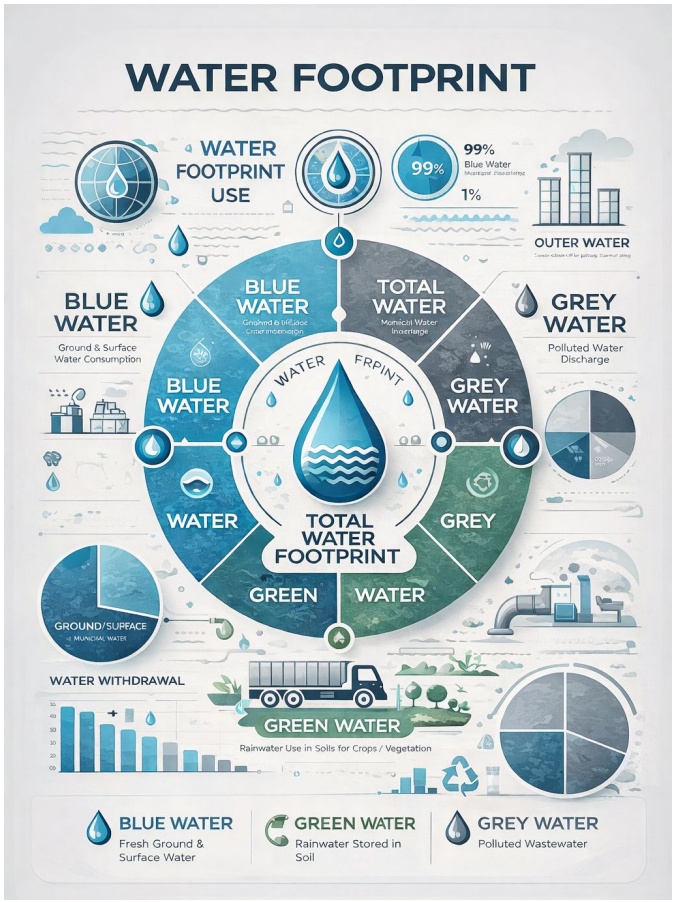
Guided by visionary management, the company continues to drive strategic growth and innovation in the industry.

The company emphasizes creating a comfortable work environment with a focus on health, safety, and sustainability.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

ABOUT THE REPORT

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.



This Water Footprint Report for Richa Fashion Pvt. Ltd., provides a detailed assessment of the organization's water consumption, usage patterns, and discharge processes. It follows globally recognized methodologies, including ISO 14046 and the Water Footprint Network (WFN), 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.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

INTENDED USE & USERS OF THE REPORT

This report is a voluntary communication to various stakeholders of Richa Fashion Pvt. Ltd., 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:

Mr. Pranav Verma | Director

Verifier: Mr. Rajiv Chaturvedi

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

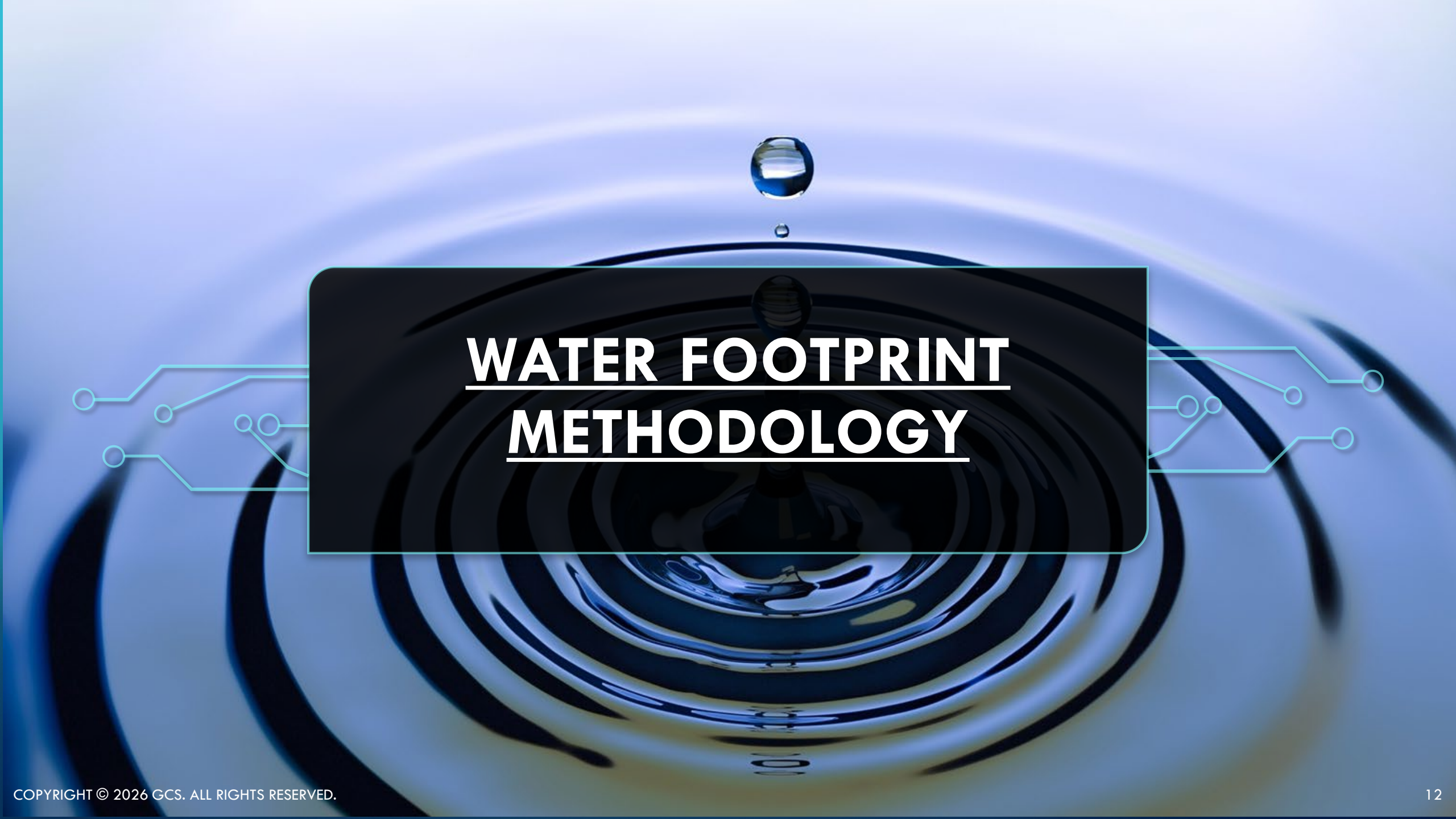
Certificate No.: 117874925 / 165946641/ CERT _3669744_ 4

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

Accounting & Reporting by:

Green Compliance Services

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.



WATER FOOTPRINT METHODOLOGY

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

This report evaluates the water footprint of Richa Fashion Pvt. Ltd., a garment manufacturing unit, using the **ISO 14046 and 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.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

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

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

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

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

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	

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

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

COPYRIGHT © 2026 GCE. ALL RIGHTS RESERVED.

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 **Richa Fashion Pvt. Ltd.** achieve its **sustainability goals**, minimize its environmental impact, and ensure long-term water security for future generations.

COPYRIGHT © 2026 GGS. ALL RIGHTS RESERVED.

WATER FOOTPRINT ASSESSMENT - 2025

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

		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	305	309	299	312	312	300	307	303	316	299	301	316	3675
	Municipal Water	25	24	24	25	24	24	24	24	24	23	25	21	287
	Total Water Intake	330	333	323	337	336	323	331	327	339	322	326	337	3962
RO Water (Ground water)	RO Intake	122	127	135	125	126	124	125	126	129	127	128	136	1531
Ground Water	RO Filtered water - Drinking	29	31	32	30	30	30	30	30	31	31	31	33	368
	RO Filtered water - Boilers	30.80	32.31	34.31	31.68	32.05	31.38	31.60	32.02	32.76	32.29	32.53	34.36	388
	RO Filtered water - Cooler, Air Washer, Utensil Wash, Food Cooking	6.86	7.19	7.64	7.05	7.14	6.98	7.04	7.13	7.29	7.19	7.24	7.65	86
	RO Wastewater - Domestic Toilet/ Flush	55	57	61	56	57	56	56	57	58	57	58	61	689
	Washing / Laundry	185	181	161	187	185	177	183	177	186	171	172	178	2144
	Total Ground water use	306	309	297	312	312	301	307	303	315	299	300	314	3675
Municipal Water	Hand wash	4	4	4	4	4	4	4	4	4	4	4	3	43
	Washing / Laundry	21	21	21	21	20	20	20	21	20	20	21	18	244
	Total Municipal water use	25	24	24	25	24	24	24	24	24	23	25	21	287
Ground Water + Municipal Water	Total Domestic Use	94	99	105	97	98	96	97	98	100	99	100	104	1186
Ground Water + Municipal Water	Total Industrial Use	237	234	216	240	238	228	235	229	239	224	226	230	2776
Fire Tank	Fire Tank	120	120	120	120	120	120	120	120	120	120	120	120	120
ETP	From Washing & Laundry	223.28	218.58	197.41	225.90	222.99	213.31	220.10	213.73	223.34	207.03	209.31	212.41	2587.40
	From Boiler Blow Down	4.60	4.40	4.40	4.60	4.60	4.50	4.70	4.50	4.60	4.30	4.50	4.70	54.40
	Total ETP Inlet	228	223	202	230	228	218	225	218	228	211	214	217	2641.80
	ETP Outlet	225	220	199	227	224	215	222	215	225	208	211	214	2603.23
	ETP Treated Water Discharge to Municipal Authority Sewage (Without RO Treatement)	157	154	139	159	157	150	155	151	157	146	147	150	1822.26
ETP RO `	ETP RO Inlet	67.36	65.92	59.66	68.14	67.28	64.39	66.46	64.51	67.38	62.47	63.21	64.18	780.97
	ETP RO Treated water - Washing & Laundry	23.58	23.07	20.88	23.85	23.55	22.54	23.26	22.58	23.58	21.87	22.12	22.46	273.34
	ETP RO Treated water - Factory cleaning & Gardening	7	7	6	7	7	6	7	6	7	6	6	6	78.10
	ETP RO Waste water	37	36	33	37	37	35	37	35	37	34	35	35	429.53
Discharge to Municipal Sewer	ETP Discharge (RO Wastewater + (Treated wastewater)	194	190	172	196	194	186	192	186	194	180	182	185	2252
	75% Drinking water	22	23	24	23	23	22	22	23	23	23	23	24	276
	Domestic Toilet	55	57	61	56	57	56	56	57	58	57	58	61	689
	Cooler, Handwash, Air Washer, Utensil Wash, Food Cooking	11	11	11	11	11	11	11	11	11	11	11	11	129
	ETP RO PERMIT (Factory Clean , Fire Test Mock Drill & Gardening) - Domestic Recycle	7	7	6	7	7	6	7	6	7	6	6	6	78
	Total Discharge in Municipal Sewer	288	288	275	293	291	281	287	283	293	277	280	288	3424

COPYRIGHT © 20

2025 Water Management

🚰 Total Water Withdrawal
3962 KL

💧 Municipal Water
287 KL

💧 Ground Water
3675 KL

🥤 Domestic Usage
1186 KL

🏭 Industrial Usage
2776 KL

♻️ ETP RO Reject Water Reused
780.97 KL

♻️ RO Reject Water Reused
689 KL

🌊 Wastewater Discharge
3424 KL

ESG Highlights:

- Ground water is the primary water source.
- RO reject water is reused in domestic use.
- ETP RO filtered water is reused in industrial and domestic use.
- Wastewater is discharged to municipal sewage.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

Water Footprint Type	Volume (KL/year)	Remarks
Blue Water Footprint	3962	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.

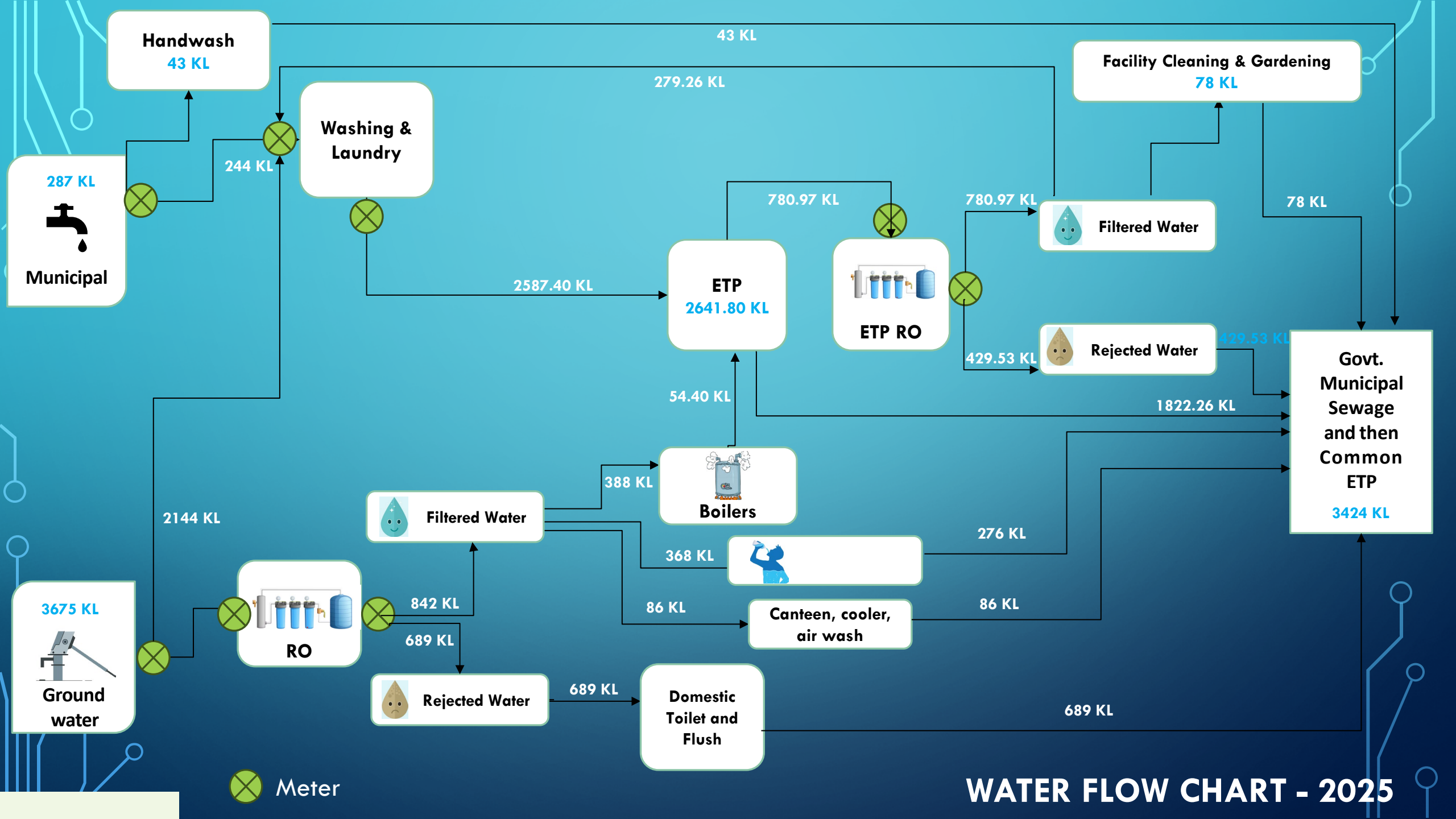
COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

NORMALIZED WATER DISCHARGE

DISCHARGE	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Domestic (KL)	KL	94	98	103	96	97	95	96	97	99	97	98	103
No. of Working Days	Number	27	24	24	26	27	25	27	23	26	22	25	27
Discharge Per Day	KL	3	4	4	4	4	4	4	4	4	4	4	4

DISCHARGE	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Industrial (KL)	KL	194	190	172	196	193.99	185.66	191.62	186.01	194.29	180.13	182.24	185.06
No. of Working Days	Number	27	24	24	26	27	25	27	23	26	22	25	27
Discharge Per Day	KL	7	8	7	8	7	7	7	8	7	8	7	7

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.


Handwash
43 KL
43 KL
279.26 KL
Facility Cleaning & Gardening
78 KL
Washing & Laundry
287 KL
Municipal
244 KL
780.97 KL
780.97 KL
Filtered Water
78 KL
2587.40 KL
ETP
2641.80 KL
ETP RO
Rejected Water
429.53 KL
429.53 KL
Govt. Municipal Sewage and then Common ETP
3424 KL
54.40 KL
1822.26 KL
388 KL
Boilers
2144 KL
Filtered Water
276 KL
368 KL
3675 KL
842 KL
RO
86 KL
86 KL
Canteen, cooler, air wash
689 KL
Ground water
Rejected Water
689 KL
Domestic Toilet and Flush
689 KL
Meter
WATER FLOW CHART - 2025

CONCLUSION

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

Indicator	Value
Total Water Intake	3962 KL/year
Groundwater Dependency	93%
Industrial Water Use	~70%
Domestic Water Use	~30%
Wastewater Discharge	3424 KL/year

The water footprint assessment indicates that the facility primarily relies on municipal water supply for its operational requirements. Domestic water consumption represents the largest share of total water use, while industrial water use is mainly associated with boiler and washing operations.

Wastewater generated from the facility is discharged to the municipal sewer system for centralized treatment. Continued monitoring of water consumption and implementation of efficiency measures can further enhance sustainable water management practices.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

WATER RISK ASSESSMENT USING WRI AQUEDUCT

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

Input address	Match address	Latitude	Longitude	Major Basin	Minor Basin	Aquifer	Country	Province	Overall Water Risk
A-115, A Block, Sector 65, Noida, Uttar Pradesh 201309, India	-	28.609903	77.3818101	Ganges - Bramaputra	Yamuna 1	-	India	Uttar Pradesh	Extremely High (4-5)

WATER RISK ASSESSMENT USING WRI AQUEDUCT

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

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

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

RECOMMENDATIONS FOR WATER MANAGEMENT

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

Implement low-flow fixtures / aerators, sensor-based taps & fix leakages to reduce domestic water consumption.

Rainwater Harvesting – Implement systems to **reduce borewell 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 closed-loop recycling systems to reduce ETP load.

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.

END OF REPORT

COPYRIGHT © 2026 GCS. ALL RIGHTS RESERVED.