

HERITAGE MAX REALTECH PRIVATE LIMITED

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V3	20 September 2024	30 September 2024	On or before Sep 30, 2025

WATER CONSUMPTION POLICY

INTRODUCTION

At Heritage Max Realtech Pvt. Ltd., we recognize the critical importance of water as a finite and shared resource. Our Water Efficiency Policy underscores our commitment to conserving water through integrated planning, innovative technologies, and proactive stakeholder engagement. We aim to reduce water demand and promote sustainable usage across all project development stages – from conceptual design to construction and final commissioning. Our approach is in line with best practices recommended under international and national green building rating systems, including GRIHA.

1. COMMITMENT TO WATER CONSERVATION

Heritage Max Realtech Pvt. Ltd. commits to integrating water conservation measures into all stages of our development projects. This commitment includes the adoption of best practices for water efficiency, implementation of advanced technologies, and continuous monitoring to promote sustainable water use.

2. ALIGNMENT WITH GREEN BUILDING RATING SYSTEMS

Heritage Max Realtech Pvt. Ltd. ensures that our water conservation strategies align with various green building rating systems, including GRIHA. These systems provide a comprehensive framework for achieving sustainable water use throughout our projects.

3. PLANNING & DESIGN STAGE

3.1. Development and Implementation of a Commissioning Plan

Objective: To ensure all water conservation systems are designed, installed, tested, and operated according to the project's performance requirements.

Strategy:

- Develop a commissioning plan that outlines water conservation goals.
- Engage stakeholders in reviewing the plan to ensure compliance with water efficiency standards.
- Document and verify the performance of water-related systems through inspections and testing.

Alignment with GRIHA: The commissioning process aligns with GRIHA prerequisites and credits related to water efficiency, ensuring that all systems function as intended.

3.2. Integrative Design for Water Conservation

Objective: To incorporate water efficiency from the outset of the project.

Strategy:

- Collaborate with architects, engineers, and landscape designers to integrate water-saving measures.
- Use water balance modelling to predict and optimize water use.

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- Select materials and technologies that promote water efficiency.

Alignment with GRIHA: This integrative approach supports GRIHA's Integrative Process credit, promoting collaborative design for maximum water efficiency.

3.3. Requirements for Indoor Water Efficiency

Objective: To reduce water usage within buildings.

Strategy:

- Install high-efficiency fixtures such as low-flow toilets, faucets, and showerheads.
- Use water-efficient appliances and systems, including dishwashers and laundry machines.
- Implement sensor-based or automatic shut-off systems to minimize water wastage.

Alignment with GRIHA: Meets GRIHA prerequisites and credits for Indoor Water Use Reduction, targeting significant reductions in indoor water consumption.

3.4. Requirements for Outdoor Water Efficiency

Objective: To minimize water-use in landscaping and outdoor areas.

Strategy:

- Implement drip/smart irrigation systems that reduce water consumption.
- Utilize drought-tolerant and low-water plants for landscaping.
- Design landscapes to maximize natural rainwater retention and minimize runoff.

Alignment with GRIHA: Complies with GRIHA credits for Outdoor Water Use Reduction by designing landscapes that significantly reduce or eliminate the need for irrigation.

3.5. Requirements for Process Water Efficiency

Objective: To optimize water, use in building systems and operations.

Strategy:

- Reuse greywater for non-potable applications such as irrigation and toilet flushing.
- Implement on-site wastewater treatment systems.
- Utilize high-efficiency cooling towers and other process-related water systems.

Alignment with GRIHA: Aligns with GRIHA credits for Water Metering and Cooling Tower Water Use, promoting efficient water use in building operations.

4. COMMON WATER EFFICIENCY MEASURES

4.1. Drip/Smart Irrigation

Implementation:

- Install systems that deliver water directly to plant roots to minimize evaporation.
- Use moisture sensors to optimize irrigation schedules.

Alignment with GRIHA: Supports Outdoor Water Use Reduction by implementing efficient irrigation technologies.

4.2. Drought-Tolerant/Low-Water Landscaping

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Implementation:

- Select native or adapted plants that require minimal watering.
- Use mulch and ground covers to retain soil moisture.

Alignment with GRIHA: Contributes to GRIHA credits for Sustainable Sites and Outdoor Water Use Reduction.

4.3. High-Efficiency/Dry Fixtures

Implementation:

- Install fixtures that use minimal water without compromising functionality.
- Regularly maintain and inspect fixtures to ensure optimal performance.

Alignment with GRIHA: Meets GRIHA Indoor Water Use Reduction credits by installing and maintaining high-efficiency fixtures.

4.4. On-Site Wastewater Treatment

Implementation:

- Establish systems for treating wastewater for reuse in non-potable applications.
- Ensure compliance with local regulations and standards for water quality.

Alignment with GRIHA: Supports GRIHA credits for Water Reuse and Water Efficiency by treating and reusing wastewater on-site.

4.5. Reuse of Greywater for Non-Potable Applications

Implementation:

- Set up greywater collection systems for reuse in irrigation and flushing.
- Educate building occupants on the safe and effective use of greywater systems.

Alignment with GRIHA: Aligns with GRIHA credits for Water Reuse, promoting the use of greywater for non-potable purposes.

5. OPERATION WATER EFFICIENCY MONITORING

5.1. Post-Construction Water Monitoring

Objective: To ensure that water conservation measures are effective and identify areas for improvement.

Strategy:

- Conduct regular water audits and assessments.
- Monitor water usage data to detect leaks or inefficiencies.

Alignment with GRIHA: Supports GRIHA credits for Performance Measurement, ensuring ongoing efficiency and conservation.

5.2. Sub-Metering

Objective: To provide detailed insights into water use across different building areas.

Strategy:

- Install sub-meters for high-use areas to track specific water consumption.

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- Use data from sub-meters to optimize water use and identify saving opportunities.

Alignment with GRIHA: Aligns with GRIHA Water Metering credits by providing detailed tracking of water use.

5.3. Water Use Analytics

Objective: To analyze water usage patterns and improve efficiency.

Strategy:

- Utilize advanced analytics software to monitor and report on water use.
- Generate regular reports to inform stakeholders about water conservation performance.
- Implement corrective actions based on data insights to enhance water efficiency.

Alignment with GRIHA: Meets GRIHA requirements for Performance Measurement by using analytics to drive efficiency improvements.

6. MONITORING AND REPORTING

Regular Monitoring: Conduct regular inspections and audits to ensure water systems operate efficiently and identify potential issues promptly.

Reporting: Generate detailed reports on water use and conservation efforts. Share findings with stakeholders to maintain transparency and drive continuous improvement.

Continuous Improvement: Use monitoring data to refine and enhance water conservation strategies continually. Engage in ongoing training and education for staff and occupants on best practices in water efficiency.

7. POST-CONSTRUCTION AND OPERATIONAL PHASE TRANSITION

Commissioning & Testing: Conduct integrated system commissioning, including pressure testing, flow testing, and functionality checks of all water-related systems.

Training & Handover: Provide training to O&M teams on operation of water-saving technologies and water reuse systems.

Performance Verification: Conduct third-party audits for water system verification post-occupancy.

Continuous Improvement:

- Undertake annual water audits to identify conservation opportunities.
- Revise design and implementation strategies based on feedback from project reviews and GRESB performance.
- Promote awareness and engagement through training sessions for site teams and end-users.

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8. CONCLUSION

Heritage Max Realtech Pvt. Ltd. is committed to leading by example in water conservation. Through strategic planning, innovative design, and continuous monitoring, we aim to achieve significant water savings and promote sustainable development practices across all our projects. Our alignment with GRIHA and other green building rating systems ensures that our projects meet the highest standards of water efficiency and sustainability.

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