

Method & Capability Statement



Water Body Design & Engineering Company

Axiom Corporation

is a specialized water body design and engineering firm providing end-to-end consultancy services for swimming pools, fountains, water features, recreational water bodies and sustainable water systems. The company delivers technically sound, aesthetically refined, and code-compliant designs tailored to hospitality, residential, commercial, and public infrastructure projects.

Core Capabilities

1. Water Body Design

- Swimming pools (competition, leisure, infinity, rooftop, heated pools).
- Decorative & programmable fountains.
- Lakes, ponds, bio-pools & water features.
- Splash pads & interactive water play areas.
- Reflecting pools & architectural water bodies.

2.Engineering & Technical Design

- Hydraulic design & flow calculations.**
- Filtration, circulation & water treatment systems.**
- Pump sizing, pipe network design & head loss calculations.**
- Chemical dosing systems (manual & automated).**
- Heating systems (heat pumps, solar, boilers).**
- Electrical layouts & control systems.**
- Structural coordination inputs for RCC water bodies.**

3. Compliance & Standards

- Designs in compliance with NBC, CPHEEO, IS codes.
- International references: ANSI/APSP, DIN, FINA, WHO guidelines
- Safety norms for suction fittings, drains & anti-entrapment.
- Energy-efficient and water-saving system designs

4. RIBA Plan of Work

- Stage 0: Strategic Definition:
Project, vision, objectives.
- Stage 1: Preparation & Briefing:
Detailed client brief, feasibility.
- Stage 2: Concept Design:
Initial design ideas, spatial arrangements.
- Stage 3: Spatial Coordination:
Coordinated design, detailed systems.
- Stage 4: Technical Design:
Detailed technical info for construction.
- Stage 5: Manufacturing & Construction:
The building process.
- Stage 6: Handover:
Project completion, handover to client.
- Stage 7: Use:
Post-occupancy evaluation, feedback.

5. Methodology of Work

Stage 1: Requirement Analysis

- Understanding client brief, usage pattern & site constraints.
- Review of architectural, structural & MEP drawings.
- Site inspection (if required).



Stage 2: Concept Design

- Water body layout planning.
- Zoning & functionality planning.
- Preliminary equipment selection.
- Design intent drawings & concept notes.

Stage 3: Detailed Engineering

- Hydraulic schematics & calculations.
- Equipment schedules & technical specifications.
- Filtration plant layout drawings.
- Electrical & control logic diagrams.
- Water treatment & chemical dosing methodology.

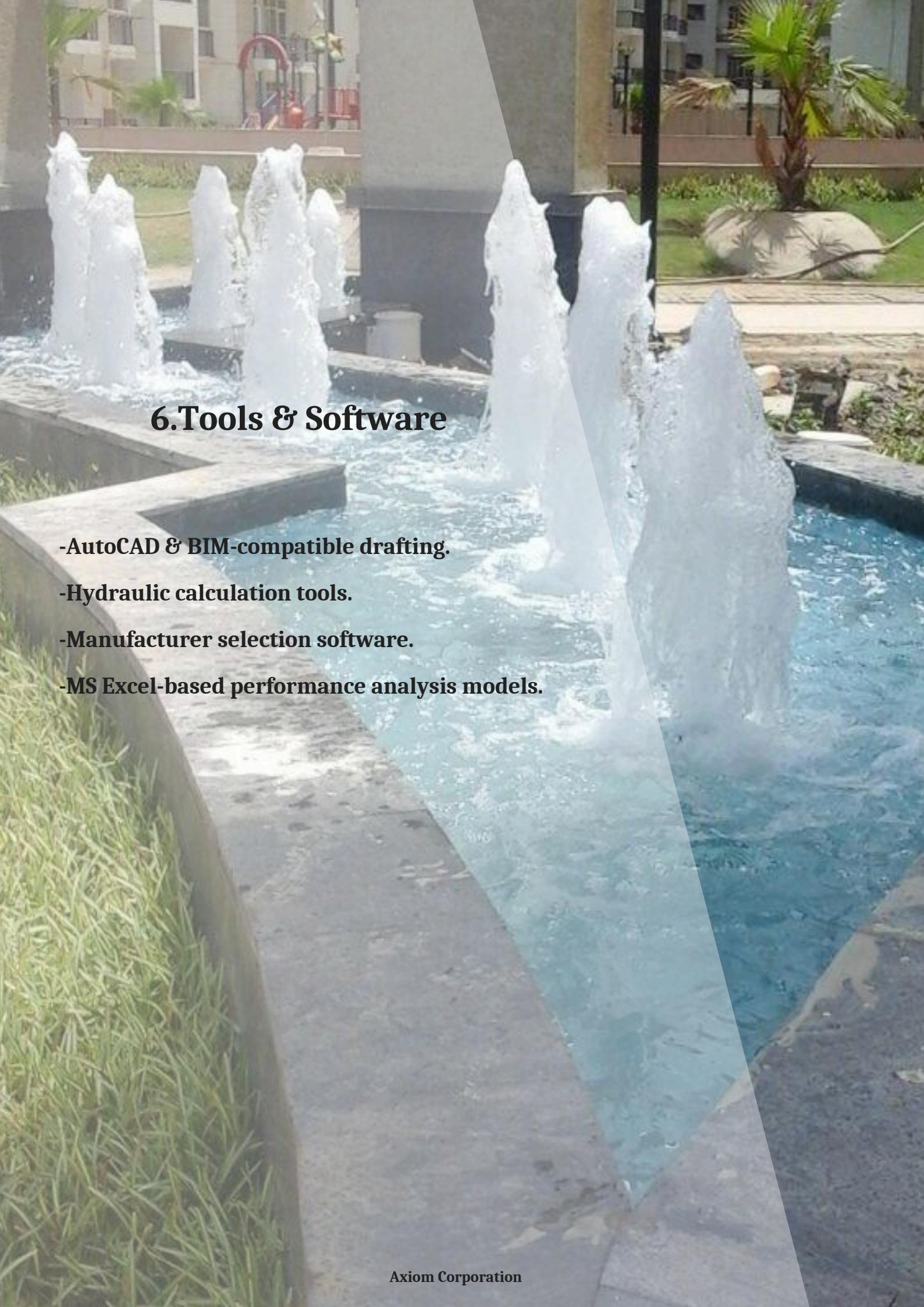


Stage 4: Tender & GFC Documentation

- BOQ preparation.
- Technical specifications for tendering.
- Issued for Construction (IFC/GFC) drawings.
- Vendor coordination support.

Stage 5: Execution Support

- Design clarifications during execution.
- Shop drawing review.
- Site coordination meetings.
- As-built documentation support.



6. Tools & Software

- AutoCAD & BIM-compatible drafting.
- Hydraulic calculation tools.
- Manufacturer selection software.
- MS Excel-based performance analysis models.



7. Sustainability & Efficiency Approach

- Low-velocity filtration designs.
- Energy-efficient pumps & VFD systems.
- Water-saving backwash & balancing tank design.
- Eco-friendly disinfection options.
- Reduced chemical consumption strategies.

8.Experience & Project Types

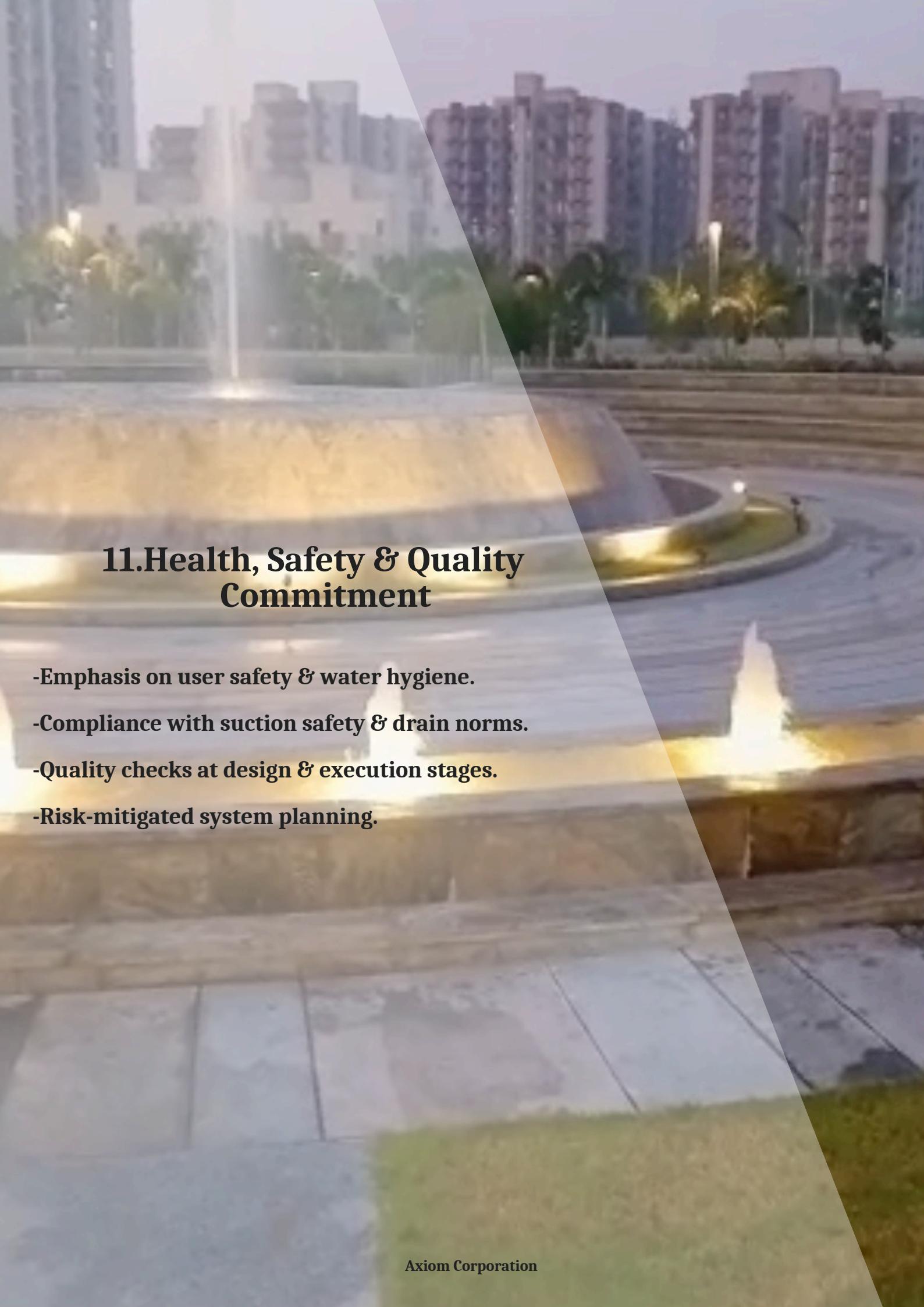
- Luxury hotels & resorts.
- Farm houses & villas.
- Group housing projects.
- Commercial complexes & malls.
- Government & public infrastructure projects.
- Religious & heritage sites.

9. Key Strengths

- Independent design-only consultancy.
- Vendor-neutral equipment selection.
- Cost-optimized yet performance-driven designs.
- Strong coordination with architects & PMC teams.
- Quick turnaround with detailed technical clarity.

10. Deliverables

- Concept drawings.
- Detailed design drawings.
- Hydraulic calculations.
- Equipment datasheets & schedules.
- BOQ & specifications.
- IFC/GFC drawings.



11. Health, Safety & Quality Commitment

- Emphasis on user safety & water hygiene.
- Compliance with suction safety & drain norms.
- Quality checks at design & execution stages.
- Risk-mitigated system planning.

Contact Information

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