

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, W.HO guidelines
- Safety norms for suction fittings, drains & anti-entrapment.
- Energy-efficient and water-saving system designs

4. RIBA Plan of Work

- Stage0: Strategic Definition:
Project, vision, objectives.
- Stage1: Preparation & Briefing:
Detailed client brief, feasibility.
- Stage2: Concept Design:
Initial design ideas, spatial arrangements.
- Stage3: Spatial Coordination:
Coordinated design, detailed systems.
- Stage4: Technical Design:
Detailed technical info for construction.
- Stage5: Manufacturing & Construction:
The building process.
- Stage6: Handover:
Project completion, handover to client.
- Stage7: 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.**

A photograph of a modern water treatment facility. In the foreground, several large, dark, rectangular filtration modules are arranged in a row, with water cascading over them. The water is clear and blue. In the background, a large, light-colored building with a flat roof and a logo on top is visible. The sky is clear and blue.

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.

A large, multi-tiered fountain is the central focus, with water spraying upwards from several points. The fountain is illuminated with warm, golden lights. In the background, a city skyline with several high-rise buildings is visible under a twilight sky. The foreground shows a paved area and some greenery. A diagonal white line runs across the image from the top right to the bottom left.

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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