

## **Flow Dynamics India**

Water & Wastewater Treatment Solutions,  
Swimming Pool Building -A Technology Provider



# EVERY DROP MATTERS

WHEN 97  
PERCENT OF  
WATER ON  
EARTH IS  
SALT WATER,

with only one hundredth of one percent of water available for human use, every single drop matters. We squander and pollute the most vital substance on Earth, despite knowing we are nothing, without water. Fortunately, there are some of us who don't just understand the escalating water crisis, but also engage in resolving the pressing challenges.





# EVERY PURE DROP COUNTS

## SUSTAINABILITY FOR PURITY

If water holds the very existence of life, pure water is the elixir for life. In the developing nations, lack of access to clean water has been a life-threatening problem. In India itself, more than one lakh people die every year due to water-borne diseases. Moreover, drought and flooding worsen the daily struggles for pure water.

Flow Dynamics India (FDI) is a devoted organization which aims to bring about sustainable progress in clean water supply in India. We take it as a responsibility to improve infrastructures and offer technological solutions that help in improving the access to safe water. At the same time, we give water the respect it deserves, by adhering to environmental protection and conservation measures.



# EVERY DAY MAKES A DIFFERENCE

10 years of water quality management & solutions



# EVERY CHALLENGE IS AN OPPORTUNITY

Partnering to save water & protect environment



Flow Dynamics India (FDI) is a progressive solution provider for water treatment, wastewater treatment & recycling of water. Having dedicated more than a decade in impacting the quality of water and quantity of depleting water resources, we understand that every single day of effort is significant.

Whatever your water and wastewater needs are Flow Dynamics India offers one stop shop providing a comprehensive range of services. We are able to bring together global expertise and innovation and adapt this to relevant local needs.

We provide practical business solutions that capitalize on our unique combination of leading edge technologies, engineering, years of expertise and support capabilities. As a key player in the water management industry, we follow an integrated approach, working with clients and government authorities to deliver a broad range of services.

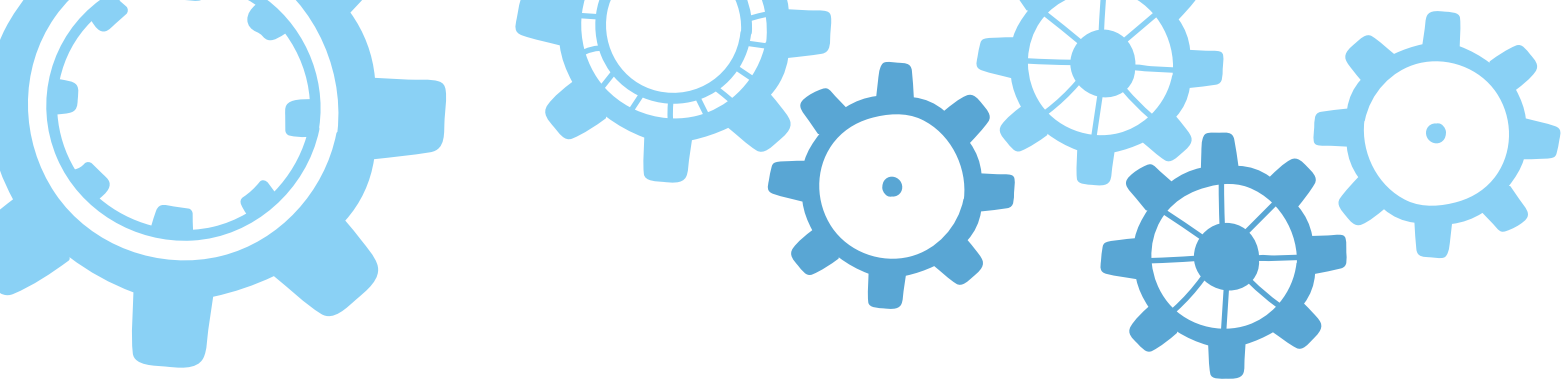
The population explosion demands new housing developments. Diverse geographies intensify the need for infrastructural expansion. In turn, more wastewater is being disposed into the water cycle, posing a greater challenge for the municipalities. They need to evolve to comply with environmental policies and regulatory bodies that are rapidly becoming more stringent. They need to fight water scarcity, while also find out newer ways of reusing wastewater, instead of disposing it. FDI considers every challenge as an opportunity to save water & protect the environment. We help municipalities

to meet water treatment goals, more efficiently & effectively. We make good use of our company's forward-thinking and thoughtful leaders to develop technologically advanced solutions so that safe, clean potable water reaches everyone.

As a strategic business partner, FDI helps municipalities to manage and optimize water resources, meeting growing population needs, overcome scarcity challenges and comply with regulatory requirements for water and wastewater treatment plant.







# EVERY SMALL EFFORT IS A BIG LEAP

## INNOVATION & COMMITMENT TO BECOME BETTER

At FDI, we ensure highest quality standards are adopted and maintained, during development as well as installation stage. Be it infrastructure, technology, engineering techniques, product selection or customer services, we conform to globally accepted quality control mandates. Our design & system engineers focus on innovative technologies and water solutions with improved technical performance.

This, in turn, has helped FDI in offering tailor-made water management systems with long-term cost effectiveness to a large customer base. We believe it is our commitment towards water and the life, it supports that we continue to deliver most reliable, 'complete', ready-to-go plants & systems.

Flow Dynamics India has already designed, constructed and maintained safe drinking water and advanced wastewater solutions for many authorities, councils, municipalities, commercial users and property developers. We have equally made a mark in big cities and rural or remote communities. We aspire to reach out to every corner of the country, to improve the quality of life for one and all.

# EVERY COURSE IS A VOYAGE

## BUSINESS VERTICALS



Flow Dynamics India channelizes its course of work in a way that there is a solution for every customer's exclusive needs. We have gradually divided our operations into four primary business verticals, which let us focus on very specific arenas. Consequently, every Business Vertical has its own challenges and milestones; its own unique journey, made with tailor-made water solutions for a number of sectors.



FDI  
BUSINESS VERTICALS

## SWIMMING POOL DIVISION (SPD)

Olympic Size Competition Pools

Commercial & Residential Pools

Water Bodies, Lily Ponds

Water Massage System (Jacuzzi)

Fountains, Rain Dance Water System



## EFFLUENT & WATER DIVISION (EWD)

(WASTEWATER TREATMENT)

Municipal Wastewater

Industrial Wastewater

Recycle & Reuse

Zero Liquid Discharge

Waste to Energy



## EFFLUENT & WATER DIVISION (EWD)

(WATER TREATMENT)

Municipal Water

Process Water

Institutional Plant

DM/RO Plant

Softening Plant

Pharmaceuticals - Ultra Pure Water (UPW)

Dialysis Plant

EDI System

Hot Water Generation System

Pressure System

## SERVICE BUSINESS UNIT (SBU)

Operations & Maintenance

Service Support

Spare parts & consumables

Technical assistance



# EVERY STAGE PLAYS A PART

## OPERATIONAL STAGES OF WORK

FDI believes in standing beside the customers from beginning till the end. Right from the first point when the project is conceived to the completion stage, followed by maintenance & service, we stay abreast with every minute detail of the process and technology to be involved. This is because we understand every stage plays a significant role in moving forward and making the project, a big success.

### Pre-Establishment Stage

- Water Chemistry Analysis
- Treatment methods and philosophy
- Sizing of Processes, Plants & Equipment
- Sizing of Retention Tanks
- C-MEP Design & Detail Engineering
- Civil Layout preparation for WTP & WWTP
- Laying down features
- MEP Layout preparation, positioning all equipment locations
- Supervision of Civil Work and related services

### Execution Stage

- Constructing Pre-Fabricated Modules
- Inspection & Testing by Client
- Supply & Installation
- Testing & Commissioning
- Operator Training
- Trial Run
- 24x7 Operations and Maintenance

# EVERY TECHNOLOGY IS DEVELOPED

## WITH THE AIM TO DELIVER HIGH QUALITY OF TREATED WATER

Flow Dynamics India combines expertise with innovation to offer technological solutions suited to each application. Projects range in size and complexity, from large-scale design-build execution to engineering and equipment supply, to service and O&M contracts. When designing solutions, the focus is always on the customer's specific goals, which includes low operating costs and an optimized design. The earlier we are involved, the greater the opportunity to develop the most ideal solution.



## Wastewater Treatment Technology

FDI Technologies applies its sewage treatment leadership to extract the full value from wastewater. We reduce municipalities' ecological impact by implementing wastewater treatment technologies that meet the stringent regulation standards.

We develop technologies for safe, environmentally compliant day-to-day sewage treatment plant operations, whatever the size. Be it on-site erection or pre-fabricated plants, we manufacture Wastewater Treatment Plants for handling municipal sewage as well as process waste.

Our solutions contribute to customized, efficient and cost-effective solutions covering the complete wastewater treatment cycle:

- Primary Treatment
- Secondary Treatment
  - Oxymax (Activated Sludge Process/ Extender Aeration)
  - MBBR (Moving Bed Bio Reactor)
  - SAFF (Submerged Aerobic Fixed Film Reactor)
  - MBR (Membrane Bio Reactor)
  - UASB (Upflow Anaerobic Sludge Blanket)
  - SBR (Sequencing Batch Reactor)
- Tertiary & Polishing Treatment (UF/NF/MF/RO)
- Sludge Treatment
- Zero Liquid Discharge

**FDI EXPERTISE LIES IN  
CONCEPTUALIZING THE  
POLISHING TREATMENT FOR  
FINAL TREATED EFFLUENT,  
ASSURING A PROPER AND  
OPTIMIZED SOLUTION TO HAVE  
HIGHEST RECOVERY OF THE  
SYSTEM.**

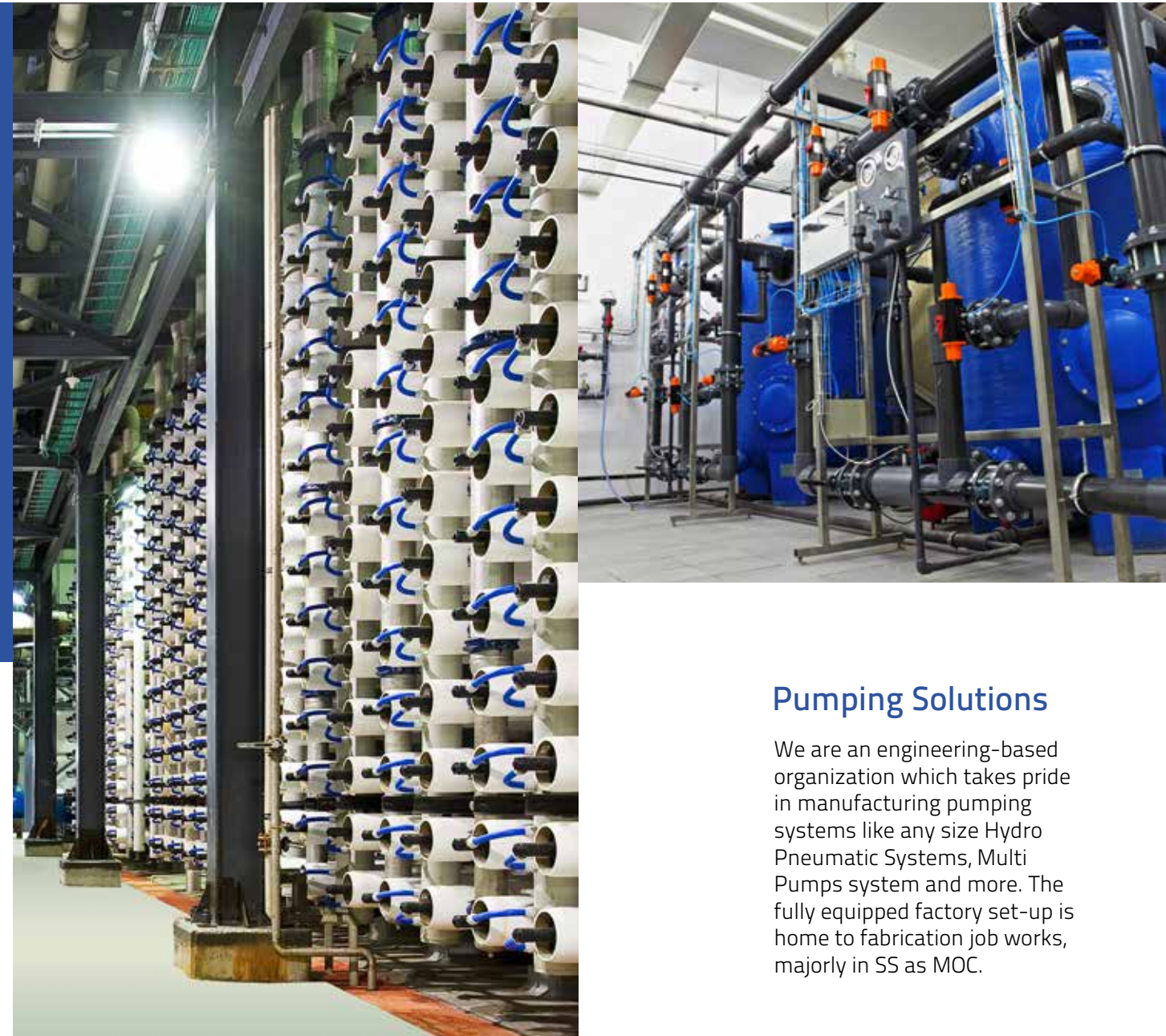


## Water Treatment Technology:

'Ultra Pure Water' (UPW) Plant is our signature offering, which is used in semiconductor industry, pharmaceutical industry and the sectors that have specific requirements w.r.t Conductivity, Microbes, TOC, etc. to be controlled with clear-cut deadlines on upper limit.

We have developed a Reverse Osmosis Plant, for industrial polishing treatment, in compliance with stringent industrial quality standards. These plants are used in laboratories & for Kidney Dialysis.

Ideal for municipal drinking water filtration, R.O. feed water and other similar applications, our very own 'Pilot' plant of Ultra Filtration can control a certain quality of water before offering a cure-all" solution to the users. This feature makes the users confident about achieving the desired quality of water in the end.



## Swimming Pool Filtration

FDI has built more than 300 pools at various locations in India, and still counting. We provide solutions for residential as well as commercial pools, totaling to over 10000 m<sup>3</sup> of water every month. Our reputation, as a consultancy for designing and constructing a dream swimming pool, has brought in many customers with their desire for a swimming oasis.

Our engineers work closely with you to understand what your need is regarding the size of the pool, preferred material, budget and time-frame. Our recommendations aim at offering a perfectly sized and stylized pool that meets all your expectations.

- Filtration
- Disinfection
- Lighting
- Heating
- Plumbing

- [Basic Filtration](#)
- [Water Softening Plants](#)
- [Micro Filtration](#)
- [Nano Filtration](#)
- [Ultra Filtration](#)
- [Reverse Osmosis Plant for drinking & other applications](#)
- [Pressure Booster System / Hydro Pneumatic System](#)
- [Hot Water Generation Systems](#)

## Pumping Solutions

We are an engineering-based organization which takes pride in manufacturing pumping systems like any size Hydro Pneumatic Systems, Multi Pumps system and more. The fully equipped factory set-up is home to fabrication job works, majorly in SS as MOC.





A green leaf is shown in the upper right corner, dripping a single drop of water. The drop is captured in mid-air, forming a teardrop shape. Below it, another smaller drop is visible, and further down, a larger drop is about to hit a surface of blue water, creating a splash and ripples. The background is a soft, out-of-focus bokeh of green and yellow light spots.

# EVERY DROPLET MAKES A RIVER

SERVING DIVERSE SECTORS WITH DIVERSE  
SOLUTIONS

FDI promises to offer superior solutions with minimal wastage of resources. This has been an unwavering mission in every endeavour taken up, over the years, to grow bigger and better. Every new product segment broadens our horizon and brings in a wave of new clientele. But as we keep expanding our diverse customer base, we ensure that we deeply value every small entity which contributes in making us a big, river like group.

## HOTELS, RESORTS, CLUBS, HOSPITALS & INSTITUTIONAL PROJECTS

[Asian Bariatrics Hospital, Ahmedabad](#)  
[Beetel Hotel, Mundra](#)  
[Club 07, Ahmedabad](#)  
[Club Babylon, Ahmedabad](#)  
[Comfort Inn, Rajkot](#)  
[Fortune Landmark, Rajkot](#)  
[Hotel Royal Orchid, Ahmedabad](#)  
[Holiday Inn Express, Ahmedabad](#)  
[Holiday Resort](#)  
[Hyatt Palace, Pune](#)  
[Hyatt Regency, Ahmedabad](#)  
[Kanak Resort, Udaipur](#)  
[Lords Hotel, Bhavnagar](#)  
[Marriott Fair Field, Surat](#)  
[MICA Institute, Ahmedabad](#)  
[Patria, Rajkot](#)  
[Rio De, Goa](#)  
[Sarovar Portico, Junagarh](#)  
[Shree Mahalasa Saunsthan, Goa](#)  
[Shree Sorath Hotel & Resorts](#)  
[Surya palace, Baroda](#)  
[The Fern Residency, Rajkot](#)  
[The Grand Bhagwati, Surat](#)  
[The Grand Regency, Rajkot](#)

## COMMERCIAL PROJECTS

[City Centre II, Ahmedabad](#)  
[Decora 9 Square, Rajkot](#)  
[Mondeal Heights, Ahmedabad](#)  
[Nila Infrastructures Ltd \(Kent LLP\), Bahucharaji](#)  
[Orbit JSW Headquarter, Mumbai](#)  
[Sankalp Iconic Tower, Ahmedabad](#)  
[Shilp Epitome, Ahmedabad](#)  
[Shivalik Satyamev, Ahmedabad](#)  
[Shivalik Shilp II, Ahmedabad](#)  
[Shivalik Shilp, Ahmedabad](#)  
[Sumel-7, Ahmedabad](#)  
[V.R.Mall, Surat](#)  
[Venus Atlantis, Ahmedabad](#)  
[West Gate, Ahmedabad](#)

## RESIDENTIAL PROJECTS

[42 Park view, Ahmedabad](#)  
[Aagam 9, Mandal Viramgam](#)  
[Aakash Group \(Weekend Address\), Surat](#)  
[Aashray Constructions \(Aashray Arise\), Ahmedabad](#)  
[Abhireet Enterprises \(Callalily\), Navsari](#)  
[Adani Shantigram, Ahmedabad](#)  
[Alpine Woods, Ahmedabad](#)  
[Amaya Properties \(52 Hansol\), Ahmedabad](#)  
[Amaya Properties \(78 Gokuldharm\), Ahmedabad](#)  
[Amaya Properties \(One 49\), Ahmedabad](#)  
[Aroma Realities \(Aakruti Elegance\), Ahmedabad](#)  
[Avirat-Amiraj Infra \(Silver Harmony\), Ahmedabad](#)  
[B Safal \(Glade One\), Ahmedabad](#)  
[B Safal \(Safal Parisar 2\), Ahmedabad](#)  
[B Safal \(Samprat Residency\), Ahmedabad](#)  
[Bakeri Group \(Samyaka\), Ahmedabad](#)  
[Bakeri Group \(Shaunak\), Ahmedabad](#)  
[Bakeri Group \(Sivanta\), Ahmedabad](#)  
[Deep Group Of Copmanies \(Indraprasth 10\), Ahmedabad](#)  
[Florence, Surat](#)  
[Hariom Elegance, Ahmedabad](#)  
[K.B. Zaveri \(Super City\), Ahmedabad](#)

[Kamla Heights, Bhilwada](#)  
[Kamla Nano, Bhilwada](#)  
[Kensville Golf Living, Nalsarovar](#)  
[KP Sanghavi \(Synergy Homes\), Baroda](#)  
[Madhuban Greens Residency, Morbi](#)  
[MayFair Spaces Ltd \(The Address\), Baroda](#)  
[Oriental Group of Companies \(Residential Colony\), Ahmedabad](#)  
[Othello Developers \(Vadsar Enclave\), Baroda](#)  
[PNG Developers \(Ocean Drive\), Surat](#)  
[Pushti Venture \(Pushti Heights\), Ahmedabad](#)  
[Radhe Skyline, Sanand](#)  
[Rajyash Project \(STANZA\), Ahmedabad](#)  
[Rio colina, Surat](#)  
[RR Cable \(Kabel Buildkon 33LE\), Baroda](#)  
[Sanand.Green.Residency-2, Sanand](#)  
[Sangath ipl, Ahmedabad](#)  
[Shalin Height 3, Ahmedabad](#)  
[Shivalik Parkview, Ahmedabad](#)  
[Snkj Infra \(Siddarth Icon\), Ahmedabad](#)  
[Ultratech Cement Ltd \(Residential\), Rajula](#)  
[West Hills Decora-A, Rajkot](#)  
[West Hills Decora-B, Rajkot](#)  
[Yash Arian Infra, Ahmedabad](#)

## INDIVIDUAL CUSTOMERS

[Abbas Jasdanwala's Bungalow, Pune](#)  
[Abhinay Patel's Bungalow, Ahmedabad](#)  
[Adani Shantigram's Bungalow, Ahmedabad](#)  
[Ankit Tayal's Bungalow, Bhavnagar](#)  
[Ashish Patel's Bungalow, Ahmedabad](#)  
[Dilip Vyas's Bungalow, Ahmedabad](#)  
[Dinesh Fofandi's Bungalow, Veraval](#)  
[Dr. Jariwala's Farm House, Chiloda Circle](#)  
[Dr. Tushar Desai's Bungalow, Ahmedabad](#)  
[Eela Sheth's Bungalow, Koba](#)  
[Farukhbhai Vhora's Bungalow](#)  
[Gokul M Jaikrishna's Bungalow, Koba](#)  
[Hemant Modi's Bungalow KBG144, Ahmedabad](#)  
[K.M.Panchal's Bungalow, Ahmedabad](#)  
[Keyur Joshi's Bungalow KBG565, Ahmedabad](#)  
[Mittul Patel's Bungalow, Ahmedabad](#)  
[Mohak A Shah's Bungalow, Ahmedabad](#)  
[Pankil Shah \(Owner Aarvee Denim\)'s Bungalow, Ahmedabad](#)  
[Prakash Thakkar's Bungalow, Ahmedabad](#)  
[Raja Rudach's Bungalow, Jamkhabhaliya](#)  
[Riddhiraj Singh's Farm House, Danta](#)  
[Rushabh Shah's Bungalow, Ahmedabad](#)  
[Sheetal Sanjay Shah's Bungalow, Umreth](#)  
[Shrenik Choudhary's Bungalow, Ahmedabad](#)

## GOVERNMENT PROJECTS & INDUSTRIES

[Amneal Pharmaceuticals Pvt Ltd, Bavla](#)  
[Kanti Fashion, Ahmedabad](#)  
[Macro Polymers Ltd, Changodar](#)  
[Olegar Enterprise, Goa](#)  
[Oxygen Bio Reserch Pvt Ltd, Changodar](#)  
[Oxygen Helthcare Pvt Ltd, Changodar](#)  
[Pavit Ceramics Pvt Ltd, Dahej](#)  
[R Y Midas Agro Product, Kathlal](#)  
[Secure Meters Pvt Ltd, Udaipur](#)  
[Ultratech Cement Limited, Rajula](#)  
[Vivante Purefoods Pvt Ltd, Indor](#)  
[Bindu Sarovar, Siddhpur](#)  
[Gujarat Police Housing Corporation Ltd, Dahod](#)  
[Junagadh Sports Complex, Junagadh](#)  
[Khokhara Sports Complex, Ahmedabad](#)  
[Kitco, Jodhpur \(Rajasthan\)](#)  
[Nadiad Sports Complex, Nadiad](#)  
[Vadodara Urban Development Authority, Baroda](#)  
[Veer Narmad South Gujarat University, Surat](#)





## **Flow Dynamics India**

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Swimming Pool Building -A Technology Provider

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