

# ENGINEERING CONSULTANT

ENGINEERING  
CONSULTANCY

HVAC  
SYSTEMS



ELECTRICAL  
WORKS



PLUMBING  
WORKS



FIRE & LIFE  
SAFETY WORKS



SYSTEM  
INTEGRATOR

ENGINEERING  
SERVICES



IP, CCTV & ACS  
SYSTEMS



DESIGN  
CONSULTANCY



ENGINEERING DESIGN  
& TURNKEY SOLUTIONS  
PROVIDER



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## AQUA INTEGRATED SOLUTIONS (AIS)

providing Engineering Consultancy including designs & EPC Solutions for Civil, Electrical & ELV System, Plumbing, Fire & life safety, HVAC System.

## About Us

Aqua Integrated Solutions (AIS) has been established, with the purpose of providing Engineering Design Solutions for Civil, Electrical, HVAC, Plumbing, Fire & life safety, ELV System, for various clients in the various sectors.

AIS works with the highest efficiency and in accordance with the latest technologies in conformity with international standards of quality, security and safety. We utilize trained and experienced staff for the implementation and delivery of projects with commitment to contract terms, conditions, and preservation to the environment.

The AIS serves its customers at every project phase, from characteristics of the market, requirement of the client. Individually, AIS encouraged to view each project as an opportunity to exceed 'Clients expectation' through the provision of the highest quality services.

***All Engineering Design solutions are carried out including but not limited to :***

- + Project Management
- + Civil & Interior Works
- + Electrical & ELV System
- + Fire & Life Safety Works
- + Public Health Engineering
- + HVAC System
- + Industrial Mech Works







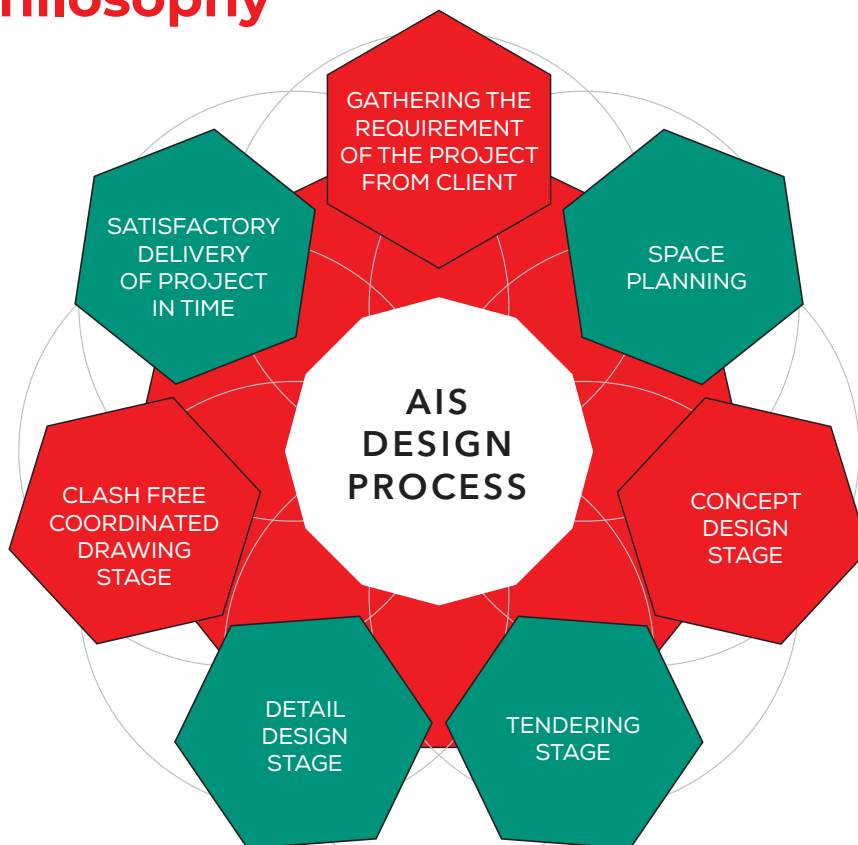
## Our Vision & Mission

To be the top most leading company renowned for excellence, quality, performance and reliability in the global market. To develop new areas of specialization that involves information systems and technology based solutions. To become the Costumers most prefer choice in Engineering Design solutions by attaining excellence in quality and timely completed value - added projects. To continually innovate, develop and adopt state-of-the-art technology in methods and materials to enhance productivity and cost effectiveness.

## Why AIS?



## Work Philosophy



## Our Team

### Mr. Mitesh Shah | Founder



Mr. Mitesh Shah is a renowned engineering professional and has overall 15 years of progressive experience in the field of Project Management Consultancy, Preparation of Pre & post Tender, Preparing Conceptual design base report, Detail Design, BOQ and Estimation of Civil works, PHE Works, Fire Protection & Suppression system for various prestigious projects. He is a sound Technocrat and also has exposure to other disciplines like ELV, Electrical & HVAC System. He is a good Team Leader for executing various projects on green concept technology as per GRIHA/IGBC/USGBC norms.

He has performed his duty as Departmental head (PHE & Fire Protection System) for all the sectors with pre & post tender activity for civil works under Cube Construction Engineering Ltd., Vadodara. He was Project Manager (Engineering Consultant) for all Industrial Sectors under Ajiyt Nair Architects Atelier Pvt. Ltd.

### Mr. Amit Patel | Co-Founder

Mr. Amit Patel has completed his Post Graduate in Electrical Engineering from University of Bridgeport USA, and having 10+ Years of field experience. He started his carrier with Iconic Project BAPS Swaminarayan Akshardham, New Delhi. Moreover, He Worked with offshore company as an Application Engineer - Lighting Control Design for USA based Lighting Control Manufacturer, Acuity Brands on Behalf of L&T Technology Services. He was Sr. Electrical Engineer (PMC) for all Sectors under J A D Project Management Consultant, Surat. Currently working with Aqua Integrated Solutions as a Head of Electrical Department.



### Mr. Imran Patel | Co-Founder



Mr. Imran Patel is a Multi-talented, enthusiastic, energetic 15+ years of Experienced in Mechanical Engineering field of Design, Project Management & execution with all types of HVAC/Fire System. He is very keen & skilled in the design techniques of various projects and well versed with preventative maintenance & troubleshooting in the field of MEP Works. He has started his carrier with India's leading Technology Company, L&T Technology services (LTTS). He was working as a core team member and gives a big roll to convert small design unit into a giant technology Centre. He has achieved best MEP Engineer Award in the field of Design and site execution by Cube Construction Engineering Ltd.

### Mr. Mayur Panchal | Associates

Mr. Mayur Panchal is a Graduate in Computer Science, and gained 15+ years of experience in the field of IT & ELV System. Presently he is CMD of 'Heterodyne Technologies Pvt. Ltd'. His Company has gain wide experience in smart network system installations under his technical guidance. He has vast experience of the following technologies /products pertaining to industrial IT Network Integration & installations. Switching & Routing, Structure Cabling System, Wireless - Wi-Fi Solution, IP Surveillance Solutions, Access Control System, RFID System, IP based Voice-PA System, Office-Home Automation. He is a good Team Leader.



# Engineering Services

BUDGET / COST ESTIMATION

TECHNO COMMERCIAL EVALUTION

QTY TAKE OFF

SPECIFICATION & CONTRACT DRAFTING

PREPARATION OF PRE & POST TENDER

MATERIAL PLANNING & MANAGEMENT



## Design Services

### PHE (Plumbing) Services

WATER DEMAND  
CALCULATIONS

STORM WATER DISPOSAL BY  
MANNING'S EQUATION

SELECTION OF PLUMBING  
FIXTURES & EQUIPMENT

SPACE PLANNING OF WATER  
STORAGE & PUMP ROOM

RAIN WATER HARVESTING AS  
PER NBC-16 & LOCAL GDCR

WATER TREATMENT PLANT  
& IRRIGATION SYSTEM

WATER DISTRIBUTION SYSTEM  
BY HAZEN WILLIAM'S EQUATION

PUMPING / BOOSTING SYSTEM  
GRAVITY / PRESSURIZED

SEWAGE / EFFLUENT  
TREATMENT PLANT

SEWAGE & WASTE WATER  
DISPOSAL THROUGH FLOW &  
VELOCITY AS PER NBC &  
CPEHMO MANUALS

HOT WATER SYSTEM  
ELECTRIC / SOLAR / HEAT PUMP  
OR COMPOSITE SYSTEM

SOLID WASTE MANAGEMENT  
SYSTEM

### Fire Protection & Safety

SPACE PLANNING OF FIRE  
WATER STORAGE & PUMP ROOM

SELECTION OF  
FIRE ACCESSORIES & EQUIPMENT

PUMPING /BOOSTING SYSTEM  
FOR FIRE PROTECTION

FIRE WATER DISTRIBUTION  
SYSTEM BY  
HAZEN WILLIAM'S EQUATION

FIRE WATER DEMAND AS PER  
NBC-16 / INDIAN PREVAILING  
STANDARDS

SPRINKLER SYSTEM AS PER  
NBC-16, INDIAN PREVAILING  
STANDARDS. NFPA, TAC, LOCAL  
FIRE AUTHORITY

GAS BASED FIRE SUPPRESSION  
SYSTEM - (NOVEC / CLEAN AGENT  
/ FM 200 / INERT GAS) AS PER NBC  
/ NFPA / FM GLOBAL / UL

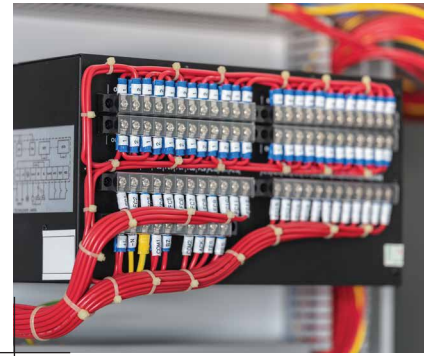
SELECTION OF FIRE HYDRANT  
SYSTEMS AS PER NBC-16, INDIAN  
PREVAILING STANDARDS. NFPA,  
TAC, LOCAL FIRE AUTHORITY

FLOODING SYSTEM WITH FIRE  
DETECT/ TUBING SYSTEM FOR  
PANELS & SERVERS - AS PER  
NBC / NFPA / FM GLOBAL / UL





## Electrical & ELV Services



### ILLUMINATION DESIGN

ASSESSMENT OF CONNECTED  
LOAD & MAXIMUM DEMAND

POWER & MOTOR CONTROL  
CENTERS AND DISTRIBUTION  
BOARDS

EARTHING AND LIGHTNING  
PROTECTION SYSTEMS

ACCESS CONTROL SYSTEM &  
PHYSICAL SECURITY SYSTEM

FIRE DETECTION AND  
ALARM SYSTEM

### SOLAR PHOTO VOLTAIC SYSTEMS

SELECTION AND SIZING OF  
TRANSFORMER / DG SET

LAYOUTS WITH LOCATION OF  
PANELS, DISTRIBUTION BOARDS,  
CABLE CARRIER SYSTEM ETC

PREPARATION OF BOQ / TENDER  
DOCUMENT WITH SPECIFICATIONS

IP CCTV SURVEILLANCE SYSTEM  
& COMMAND CONTROL CENTER

WIRED / WIRELESS LAN  
INFRASTRUCTURE

### APFC PANELS

CABLE SCHEDULE WITH  
VOLTAGE DROP CALCULATIONS

PREPARATION OF SCHEMATIC  
DIAGRAM FOR HT AND LT  
DISTRIBUTION.

PUBLIC ADDRESS & EMERGENCY  
VOICE EVACUATION SYSTEM

DESIGN GUIDELINES WILL BE AS  
PER NFPA / NBC / BIS / TAC

INTRUSION SYSTEM  
IP-PBX SYSTEM  
AUDIO VISUAL SYSTEM

## HVAC- Heating Ventilation & Air Conditioning

### HEAT LOAD CALCULATIONS

COMPREHENSIVE BUILDING/SITE  
SURVEY, STUDY OF ORIENTATION

DESIGNING OF VENTILATION AND  
EXHAUST SYSTEMS

ENERGY CONSERVATION & HEAT  
RECOVERY SYSTEM

### AIR DISTRIBUTION LAYOUTS

SELECTION OF HIGH SIDE AND  
LOW SIDE EQUIPMENT

DESIGNS FOR SMOKE EXTRACTION  
AND AIR WASHER SYSTEM

### PLANT ROOM LAYOUT

PREPARATION OF SCHEMATIC  
LAYOUTS

CHILLED AND CONDENSER  
WATER PIPING SCHEMATIC



# Project Involved

## Industrial Sectors

- ABB Turbo Charger & Relay Factory
- Siemens Condenser Bay & Security Office
- Mundra LPG Terminal Pvt. Ltd.
- IOCL (Jammu, Haldia, Mourigram, Vadodara)
- AHPPL (Hazira)
- BPCL (Kota, Borkhedi)
- SIL - MLTPL - Mundra
- Ranitec Tanneries
- HPCL
- Deepak Nitrite & Phenolics
- NDDDB - Anand
- Vadodara Effluent Channel
- L & T Automation Pvt. Ltd.
- Shell India



## Commercial Sectors

- Sports Complex of Sag, Nadiad
- Surti Modh Vanik Wadi, Adajan Suart
- Vyara River Front & Lake Development
- Head Office of Surat District Co-Op Bank, Surat.
- Arved Transcube Plaza - Ahmedabad
- Ataapi Wonderland - Vadodara
- Athwa Health Club - Surat
- Tanishq - Corporate Office
- INOX India Pvt. Ltd.



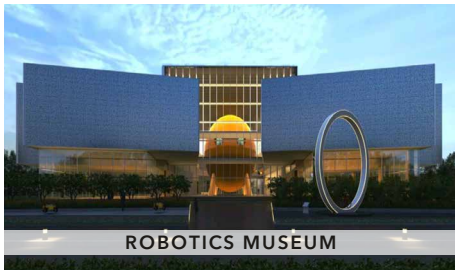
## Real Estate Sectors

- Nityam Residency
- Nest Harmony
- Everest Infra - Dignity, Unity, Trinity
- Arise House
- Mr. Aniket Bunglow
- Mr. Sohel Pathan Bunglow
- Mr. Jignesh Patel Bunglow
- Mr. Godbole Bunglow

# Project Involved

## Hospital & Education Sectors

- U N Mehta Institute of Cardiology & Research Centre (UNMICRC) - Ahmedabad
- Robotics Science Museum Science City - Ahmedabad
- National High Speed Rail Corporation Ltd - Vadodara
- Apparel Park Metro Rail Depot project - Ahmedabad
- Indian Institute of Advance Research - Gandhinagar
- Sport Authority of Gujarat - Hostel Building Saputara / Nadiad
- ABCD Building - Dholera
- Hamidia Hospital - Bhopal
- GMERS - Gotri Hospital - Vadodara
- GMERS - Sola Hospital - Ahmedabad
- GMERS - Kidney Hospital - Surat
- Nand Hospital - Vadodara
- Shushrut Hospital - Vadodara
- Samarpan Hospital - Vadodara
- Sanjivni Hospital - Vadodara
- Alembic School - Vadodara



## Government Sectors

- GSRTC Central Bus Terminal - Vadodara
- GSRTC Ranip Bus Depot Ahmedabad
- GSRTC Nizampura Bus Depot - Vadodara
- GSRTC Bharuch Central Depot - Bharuch
- SUDA Bhavan, Vesu - Surat
- Affordable Housing at Surat (SUDA & SMC), Rajkot (RUDA & RMC), Ahmedabad (AUDA & AMC), Gandhinagar (GUDA)
- Gujarat Housing Board - Affordable Housing G+13 - Vadodara, Surat, Ahmedabad
- Gujarat Governments Samaras Hostels Girls & Boys, Vadodara



SIEMENS

ABB







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ENGINEERING DESIGN CONSULTANT  
CIVIL / ELECTRICAL & ELV / PLUMBING / FIRE SAFETY & HVAC

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