

ADVANCE ENGINEERING

STRUCTURAL CONSULTANT



“Striving Toward Client’s Economy and Satisfaction”

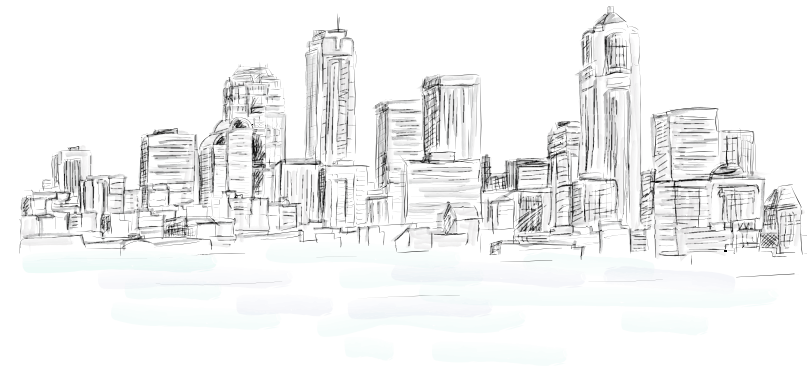
www.advanceeng.info



Our Mission

To be at the forefront in our industry by delivering the best to our clients, an achievement accomplished by harnessing quality manpower and by employing latest technology.

**OUR
MISSION
IS CLEAR**



Our Vision

In Advance Engineering Consultant, Client Delight is the backbone of each action we take and we believe in building the future together, Which is possible by perfection in service quality and best customer services.



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AEC Introduction

Advance Engineering Consultant (AEC) is a company engaged in consultancy in civil engineering. AEC was established in 1999 to develop consultancy services in India, Asia & Africa. The objective of AEC is to introduce the latest techniques, and to provide professional consultancy in multi-disciplinary areas of structural engineering, bridge engineering,highwayengineering,trafficandtransportationengineering,water resources engineering environmental engineering and engineering management.

The foundation of AEC's success is built with talent and capability of its professional staff. Lasting success does not come up simply with the award of a consultancy work, but with consistent high quality performance of a wide variety of technical and managerial tasks throughout the life of a project. AEC's recognition of this fact has enabled them to solve minor as well as major problems for our clients. The company is committed to quality service in the most effective manner.

AEC has well qualified professional and sub-professional staff enhanced by experienced project engineers with specialization in various disciplines. Most of the professional staff possess advanced degreesandhaveregistrationwithrelevantprofessionalsocieties.Thestaffing patternencompassesengineers,planners,designers,quantitysurveyors& cost estimators,surveyors,economistsandprojectmanagementplanners inalliedengineeringfields.Theengineeringtasksaresupportedbythequite competent staff in drafting, system analysis and computer programming.

AEC employs about 18 full time personnel in its office at Gandhinagar with Registered office in Dubai and Nigeria. AEC also draws the services of highly reputed part-time/Associate consultants/ organizations under the specific needs from both academic and industrial communities representing diversified skills and disciplines. AEC through its experience of more than two decade has acquired capabilities to undertake projects in different disciplines of civil engineering and particularly in structural engineering, bridge engineering, water resources/irrigation engineering and construction management.

SECTORS SCOPE OF SERVICES

Oil & Gas

Support throughout the project phase

- Pre-feasibility/Feasibility studies
- Concept development
- FEED studies
- Extended basic engineering
- Detail engineering
- Procurement
- Site management
- Construction management
- Commissioning

Services for LNG terminals

- Project management
- QA/QC and HSE management
- RAM analysis
- De-bottlenecking
- Process
- EPCM
- Verification and optimisation
- Document control
- Floating solutions
- Modularisation and skid design
- Weight & cost estimation
- Fabrication management and follow-up
- Project management
- Multi-discipline engineering covering all disciplines and project phases
- Feasibility, concept and FEED studies
- Civil services: geotechnical, infrastructure and foundations
- Pipe layout design and calculation
- Structural design, support for LNG tank and foundation design
- EPCM services
- EPC or engineering of small scale storage and regasification units
- Pipe rack design and structural drawings.

Pipeline Design Services

- Feasibility
- FEED
- HAZOP
- Conceptual design
- Material selection
- Surge analysis
- Hydraulic calculations
- Cathodic protection
- Alignment sheet
- Stress analysis
- Detail engineering
- Site support

Transmission/ Telecommunication

Transmission Tower

- Tower Design & Drawings with following bracing system
 - Single web system
 - Double web or warren system
 - Pratt system
 - Portal system
- Designs of important tower accessories like Hanger, Step bolt, Strain plate; U-bolt and D-shackle
- Shop drawings
- Civil foundation design

Telecommunication

- Tower design & drawings with following bracing system
 - K-bracing
 - XBX bracing
 - V bracing
 - W-bracing
 - XX bracing
- Design based on wind and dynamic load
- Shop drawings
- Civil foundation design
- Test beds

Industrial Structure

Pre-Design & Design Services

- Site selection assistance
- Support for statutory permits & approvals
- Project budgeting
- Development project brief
- Master planning / site planning
- Geo technical investigation & site survey advise
- Architecture
- Structural design
- Proof checking / peer review of design
- Plumbing design
- Site infrastructure design
- Electrical, lighting & ELV systems design
- HVAC design
- Fire protection design
- Mechanical utilities & piping deign
- Building modeling & visualization
- Interior design

Procurement & Cost Management Services

- Procurement strategy
- Preliminary & detailed cost estimating
- Bid/Tender//Inquiry documents
- Pre-qualification of bidders
- Bidding process management
- Bid scrutiny & assistance with award
- Advise on construction agreements
- Checking & certifying bills
- Independent cost audits

Construction Phase Services

- Site staff hiring assistance/Manpower augmentation
- Resident services–coordination with design office
- Contracts administration
- Construction management
- Closure of contracts
- Facility management guidelines

Pre Engineering Building (PEB)

- Finalizing layout of project along with column position and complete GAD
- Detail component wise material specification
- Applicable codal provision for designing primary & secondary member
- Loading consideration as per relevant standards and requirement
- Design methodology
- Detail specification and quantity of various accessories, cainting, surface preparation etc
- Detail design in Staad or MBS
- Submission of fabrication drawings
- Green building certification and norms

Water/Sewage Treatment Plant

Water Distribution

- Complete civil design with chemical dosage calculation
- Mechanical design of pumps
- Pipe line sizing, including all components except electrical
- Major components
- Finished water storage
- Distribution system
- Water pumping and storage
- Bulk water station

Water Treatment Plant

Design of filtration of water with respect to physical, chemical, microbiological properties of drinking water as per IS 10500 or WHO Standards “Guidelines for drinking-water quality”, considering Turbidity – Color – Odour – Taste – Temperature properties of water.

Major component's (Design/Sizing & Drawing's)

- Raw water settling pond
- Pre-Sedimentation
- Screening
- Coagulation (Coagulant tank, chemical specification and dosage)
- Aeration
- Flocculation
- Sedimentation (with and without coagulanmt)
- Filtration
- Disinfection/Chlorination, lime dosing
- Softening
- Process laboratory and testing
- Storage
- Distribution (Pumping and pipe line design with ESR, GSR & other storage methods)

Detail design and drawings of additional Filtration components which can be added as per requirement

- Primary treatment
- Maintaining PH and added flocculant and coagulation chemical
- Biology treatment
- Organic matter degradation with the help of aerobic bacteria
- Dual media filter
- Ultra filtration
- Calculation of MLSS, MLVSS, dissolved oxygen and chemical oxygen demand, biological oxygen demand of pretreated water and post treated water.

Water Supply

Details design of various components including

- Major and minor irrigation projects & command area development
- Aqueducts, syphons, canals and canal regulatory works
- Intake structures, tunnels, surge shafts, pen-stocks and power houses
- Engineering of barrages, major dams and irrigation tanks
- Lift irrigation schemes
- Water distribution systems
- Water resources consolidation
- Flood control
- Evaluation of the safety of dams
- Modernization of canals
- Collection works, treatment works, transmission works, distribution works
- ESR & GSR (Steel & RCC)
- Evaluation of various sources of water
- Detail design and sizing and layout of transmission and distribution pipe line along with civil components
- Sizing and type of pumps, vales and other mechanical component along with technical specification

Repair and Rehabilitation

- Inspection and survey of existing structure
- Conducting tests (Destructive and NDT)
- Rehabilitation studies
- Restoration studies
- Strengthening schemes suggestion, comparison, procedure for execution
- Restoration schemes suggestion, comparison, procedure for execution
- Residual life estimation

Roads, Highways, Expressway

- Survey
- Soil Investigation
- Alignment and Highway geometric's (Road intersection, interchanges, drain)
- Major and Minor bridge detail design and drawings
- Pipe culvert, box culvert, VUP etc
- Carriage way design (Paved/RCC)

Industrial Heavy Foundation

Detail design and drawings of complete machine-foundation system,
Ultra heavy and important structures/machines
(Rotary/Reciprocating/Impact machines)

Detail design based on following parameters

- Dynamic forces (Internally generated forces by the machine itself/externally applied forces)
- Foundation eccentricity
- Dynamic soil parameters
- Soil mass participation
- Effect of embedment
- Soil damping
- Elastic modulus
- Uncertainties associated with machine parameters
- Vibration isolation system
- Earthquake effect

Diaphragm Wall

Detail Design & Drawings

Introduction

1. Diaphragm Wall is generally reinforced concrete wall constructed in the Ground using under slurry technique which was developed in Europe
2. The technique involves excavating a narrow trench that is kept full of an engineered fluid of slurry
3. Walls of thickness between 300 and 1200 mm can be formed in this way upto depths of 45 meters

Diaphragm wall Application

- Commonly used in congested areas
- Can be Installed in close proximity to existing structure
- Practically suited for deep basements
- Used in conjunction with “Top Down” construction technique
- Positive facades of Diaphragm Wall
- Can be Installed to considerable depth
- Formation of walls with substantial thickness
- Flexible system in plan layout
- Easily incorporated into permanent works
- Can carry vertical loads
- Construction time of basement can be lowered considerably
- Economic and positive solution for large deep basement in saturated and unstable soil profiles
- Can be used for seepage control in dams
- Noise levels limited to engine noise only
- No vibration during installation

Construction Sequence of Diaphragm wall

- Stage-1: Fixing of alignment
- Stage-2: Guide wall construction
- Stage-3: Trenching
- Stage-4: Trench cleaning
- Stage-5: Stop ends fixing
- Stage-6: Reinforcement cage lowering
- Stage-7: Placing of concrete
- Stage-8: Withdrawal of stop ends

Railway

Detail Design & Drawings

- Box pushing for underpass below railway track
- Design of railway bridge/ROB as per IRS and RDSO specification
- Gauge conversion of existing meter gauge to broad gauge
- Gauge conversion rating of existing bridges and strengthening of the existing bridges for gauge conversion
- Design of Platform, Steel Structure, RCC framed structure etc

Port & Harbor

- Ports and harbor's
- Mooring and berthing structure's
- Jetties and break water's
- Ship lifts, slipways and dry docks
- Offshore yards
- Container handling
- LPG/LNG/POL/Dry Bulk/crude oil terminals
- Rehabilitation of marine structures

Airport & Aviation

- Design of framed RCC structure, space Fframe, steel structure for passenger and cargo terminals
- Airfield pavements (Rigid and flexible)
- Air traffic control (ATC) tower
- Planning and design of airport services and utilities
- Evaluation of pavements using non-destructive methods of testing
- Project Management/Construction supervision
- Design of airstrip, Taxiway, apron and pavement as per ASTHO
- Complete drainage system with hydrology study including drain culvert, box culvert

River Front

- Preparation of general arrangement drawings and general layout plan's
- Design of high embankments & foundation
- Structural design of various components
- Working drawings for all components
- Preparation of bill of quantities (BOQ)
- Design hydrology & hydraulics
- Periodic site supervision during construction

Formwork

Detail Design & Drawings of Formwork along with Methodology

Formwork design & code's adopted

- ACI 347-R 2014-Guide to formwork for concrete
- ACI SP-4(R14)-Formwork for concrete
- BS 5975 2008: 2011-British standards code practice for formwork
- CAN/CSA-S269.3 (R 2008)-Canadian standard on formwork
- AS3610 & SAA 1509-2010-Australian standards for formwork
- EN12812-European standard on performance requirement and general design
- IS-14687-1999(Reaffirmed 2005), Indian standard-false work for concrete structures
- IRC 87-201-Guidelines on formwork, false work and temporary structures

Detail Design & Drawings based on following consideration

- Types of finish
- Anchorages, form ties, braces spacing and tying of diagonal bracing's
- Requirement of opening for vibrator
- Construction joints, expansion joints details
- Camber or adjusted elevations to compensate deflections
- Bottom precast sill under shores for heavy loading
- Formwork release agents
- Any special patterns or grooves requirement as per architectural finish requirement
- Supporting members for permanent shuttering along with the formwork
- Essential provision for specialized construction techniques such as taking the boom placer, crane load to be conaidered along with the self climbing equipment
- Embedded parts, openings, any MEP works requirements
- Water barrier ties for water retaining structures

Methodology & Construction Sequence Includes

- Method of placing of concrete-pump, crane bucket etc
- De-shuttering time, in case of post tensioned time for de-shuttering
- Rate of concrete pouring
- Pour sequence
- Sequence to concrete placement along with form-work removal time
- Sequence of form removal, back propping, re-propping etc
- Methodology for proper deflection/release/loosening of supports for shell/dome structures
- Sequence of de-shuttering for providing proper stress pattern in the structure

Hydraulic Gates

Detail Design & Drawing with Mechanical Parts with Following Components

Type of Gates

- Vertical lift gates
- Radial gates

Embedded Parts, Guides and Supports

- Slots and niches
- Wheel track
- Slide tracks
- Concrete bearing pressure
- Wheels and pins
- Gate hinges and bearings
- Bearings
- Cylindrical bushings
- Spherical plain bearing
- Roller bearings

Gate hoists

- Screw lifts
- Wire ropes
- Roller chains
- Oil hydraulic drives
- Gate hoist arrangement
- Hand operation

Bridges & Flyover

Detail Design & Drawing for following Bridges types including Sub structure and super structure

- T Beam deck slab
- Prestressed concrete bridges
- Railway over bridge (ROB)
- Solid slab
- Cable stay bridge
- Steel plate girder bridge's for railway
- Segmental bridges

Tendering Service/DPR

We offer unmatched Tendering/DPR service for infrastructure project

Major Objectives Fulfilled

- Determining costing of the project
- Detail technical specification (Component Wise) ascertain the quality of work (optional)
- Floating tender
- Bid evaluation

Major Highlights

A. Quantity and Rate

- Primary design of each component for extracting sizing, Quantity/BOQ of Major component of the project
- Rate analysis of Non-standard items
- Adjacent site survey for material procurement, which needs to be procured locally
- Suppliers list along with quotation for materials, which needs to be sourced locally to minimize lead-time and lead distance
- Detail BOQ (Model/Specification) along with components wise rates
- 3 to 5 Quotation for major items

B. Quality Specification

- Providing detail technical specification of major items along with relevant local or International standards as applicable
- Vendor list of prominent vendors for major items

C. Safety Standards

- Local Safety standards and legislative bodies associated for the same

D. Time Management for Project

- Histograms and similar plans for tools and material
- Histogram for man power
- Man hour calculation

E. Tendering

- Drafting tenders as per relevant standard & Final Bid evaluation

Building Design

Detail Desing and Drawings

- RCC framed structure
- Flat slab
- PT slab
- Load bearing masonry structure, (Reinforced, Un-reinforced structure) IS: 1905
- Maximum 4 Storey for Un-reinforced masonry structure excluding basement

Lighting Design

Lighting Design (General)

- Day and Night View of luminary
- Selection of luminaire and and its source of light,
- Point's of consideration
 - ◆ Cost of luminaire & bulbs,
 - ◆ Efficiency in terms of electricity consumption,
 - ◆ Life cycle of luminaire, maintained,
 - ◆ Protection IP and Atex based,
 - ◆ Dimmer based etc
- Selection of Lighting color
- Fixing Location of fittings, (Height, Position)
- Lux level calculation based on IS or BS standard, Point's of consideration (Openings in buildings, color of wall, materials of construction of room/outdoor periphery, color of Glass of windows, light absorption coefficient of various material, Available day light, refractive index etc)
- Provision of Emergency lighting with inbuilt battery, generator/UPS backup etc along with auto switching automation, Provision of minimum lux level according to codal provisions.
- Smart scheduling or smart sensors
- Automation with the help of motion sensors, photo-voltaic sensors, proximity sensor, IR based system, or light management system.
- Centralized management system for lights
- Light programming with DMX

Benefits of Automation/Centralized Management System.

- Lower electricity bills
 - Fewer repairs and decreased maintenance costs
 - Greater efficiency of equipment
 - Require fewer personnel to manage building
 - Increase occupant satisfaction and safety
 - Gain competitive advantage
 - Increase asset value
 - Modernize buildings
 - A mere 5%-15% of the equipment cost,Savings of upto 30% on operational costs from electricity bills alone
 - Additional savings from reduced manpower requirements and fewer equipment repair costs
 - Also increases asset life, providing indirect value
- Return on Investment in 2-3 years for a building with a projected life of 20 years

Scope During various Stage's of Projects:

Conceptual Design

Concept sketches, illustrations, presentation, conceptual lighting renderings and schematic drawings.

Design Documentation

Lighting drawings, Lighting specification and dimming control schedule, Lighting calculation, LEED requirements and overall design coordination.

Construction Documentation

Finalizing the lighting drawings and specification along with dimming control schedule, developing lighting details, coordination with other consultants, Value Engineering, answering RFIs.

Construction Administration

Periodic site coordination, Coordination with other services, quality control of design implementation, final aiming and setting light levels, issuing a punch list to project team, Post occupancy evaluation.

CCTV

2D and 3D Design

- Finding the best camera locations
- Calculating precise camera lens focal length, viewing angles and pixel density (PPM/PPF)
- identification, recognition, observation, detection and monitoring zones of each camera on site plan
- Minimize dead zones to increase the security level of premises using 2D and 3D modeling.
- Getting estimations of required network bandwidth and calculating the required HDD storage space for video archives
- Complete GAD with Camera arrangement and cable layout upto VMS, VMS Rack positioning
- Complet BOQ of items

Selection of CCTV camera based on

- Analog or IP based
- Indoor or outdoor
- Type : Dome/Bullet box
- Night vision/IR
- Lense
- Fixed or PTZ
- Ex-proof, anti vandal camera
- Resolution
- IP Protection, low light performance and optical zoom capability
- Cost
- wide dynamic range of light (WDR)

Video management system with following features (VMS)

- Motion detection (Recording during motion detection only)
- Distributed processing (single management interface allowing clients to access camera sources across all servers,)
- Audio (two-way audio recording)
- Alarm I/O (Alarm outputs to activate ancillary equipment such as lighting, alert message via email, cellphone SMS, or over the Internet to a clients application or mobile phone app.)
- Pan tilt zoom control (ability to remotely control pan-tilt-zoom (PTZ) cameras only, can be remotely rotated, titled, and zoomed, a single camera to monitor a very large area with detailed views of specific areas of interest.)
- Hybrid analog/digital recording in single system
- Fisheye dewarping
- Single recorded stream, multiple views (show multiple camera views from a single recorded stream)

Understanding Of Client Requirement

- Conceptual planning for services in coordination with architect
- Preliminary MEP design report
- Preliminary budget estimates
- Detailed planning for services
- Working drawings for the project
- Specifications & Schedule of quantities
- Detailed cost estimates
- Issue notice inviting tender

Comparative Statement For Tenders-Commercial & Technical

- Assistance in award of MEP work to contractor
- Assistance in contract agreement
- Verification of shop drawings
- Intermittent site supervision
- Assistance for testing and commissioning
- Assistance with As-Installed drawings
- Assistance with initial Operation & Maintenance
- Details working of plant size, Type, AHU Capacity, Piping, Ducting Design etc
- Working out detail calculation for electrical and water requirement
- Coordinating overall designing, drawing and detailing works to structure, architectural, sanitary and electrical work and other engineering aspects as may be necessary
- Giving necessary provision to architect for Plant, AHU Rooms, Ducting & Piping Routing, Pump Room, Electrical Panel Room, Substation, Underground tank
- Submission of working design & drawings
- Specifications for various Equipment & Material along with reputed makes
- Preparing tender documents..
- Scrutinizing & Comparing bids received
- Assistance for negotiation and finalizing of contractors
- Periodical site visit and submission of report
- Checking and certification of contractors bills
- Witnessing the performance test for system

Voice Solution	Data Solution	Intruder or Burglar alarm	Audio-Video Solutions	Communication Accessories
EPABX	Multi Function Fax Machine	Mulit Zone Control Panel	Audio Amplifier	Basic Phone
Key Telephone system	LAN Switch	Motion Detector	Audio&Video conference Setup	OperatorSoft Console Head Set GSM FCT Router Voice Logger
Multi Line Phone	Router	Magnetic Contact	LED Monitor	Call Management System Call Center Application Setup
IP-PBX	Patch Panel	IR Beam Detector Switch	Ceiling Speaker	CLI Phone CordlessPhone IP Trunk Gateway
Feature Phone	I/O	GasLeak Detector	Color Laser Projector	
Walkie-Talkie	Server & Networking Rack	Panic Switch	Micro Phone	
		Vibration Detector under		
		Glass break Detector		
		Sounder		

Software

AEC has all necessary software necessary for delivering JOB’S ON TIME, We can submit output based on following list of software for prof checking as and when required by client.

We see that our personals get training for latest versions and update’s of software for their respective fields.

A. Structural Design

- Stadd pro
- ETABS
- MBS
- SAP2000
- SAFE
- ESR GSR
- In House developed Macro based spreadsheets
- In House developed design software based on MS DOS & c and c++

B. Program for River Training works/hydraulics

- HEC RAS
- ARC MAP
- MIKE10
- OASYS

C. Alignment

- Road MX
- Esurvey

D. Drafting

- Tekla structure
- Auto-cad
- Geo Tool
- In House Developed Auto-lips drafting programs

E. Lighting Design

- Dialux

F. Electrical

- E-Plan

G. PMC

- Ms Project

F. List of Some Prominent Software Developed by us

- Program for geometric designs of highway elements
- Program for RCC single circular pier & pier cap with open foundation
- Program for RCC wall type pier, pier cap with open foundation
- Program for design of group of piles and pile cap
- Program for design of elastomeric bearings
- Program for design of no of circular piers by frame analysis
- Program for design of box culverts
- Program for stability analysis for mass concrete abutment
- Program for stability analysis for mass concrete pier
- Program for stability analysis for mass concrete wing wall & return wall
- Program for design of continuous RCC beams
- Program for design of RCC column & footing
- Program for structural design, drawings and estimates for buildings and cross drain age structures
- Program for preparation of bills of quantities from basic data
- Program for rate analysis

AFFILIATIONS/EMPANELMENT

We/Our professionals are affiliated with the following professional and trade bodies:

- Gandhinagar urban development authority (GUDA)
- Ahmadabad municipal corporation (AUDA)
- Gujarat state police housing corporation ltd (GSPHC)
- American society of civil engineers (ASCE)
- Association for development and research of sustainable habitat (AdaRSH)
- Consulting engineers association of India (CEAI)
- Engineering council of india (ECI)
- Federation of gujarat industries (FGI)
- Gujarat institute of civil engineers & architects (GICEA)
- Indian association of structural engineers (IAStructE)
- Indian concrete institute (ICI)
- Indian green building council (IGBC)
- Indian plumbing association (IPA)
- Institute of indian interior designers (IIID)

Brief List of Client's

Municipal Corporation

- Ahmedabad municipal corporation
- Pune municipal corporation
- Bhavnagar municipal corporation
- Surat municipal corporation
- Goa state infrastructure development corporation limited (GSIDC)
- Vadodara mahanagar seva sadan
- Sujlam suflam yojana, gandhinagar
- Mumbai metropolitan region development authority

Infrastructure Contractor and construction companies

- Gammon india
- Kalpataru
- MS Khuranan
- Larsen & Toubro
- IL&FS
- JMC project (India) ltd
- Gannon dunkerley & Co
- Ranjit builcon limited
- Backbone
- Mega engineering & infrastructures ltd
- Heritage infraspace india private limited
- Mehul construction

Developers

- Bakery group
- Ganesh housing corporation limited
- Sankalp realty
- Shilp
- Venus lifespace creators
- Shivalik
- Rajhans
- Times square
- Avalon

Consultant

- Shrikhande consultant pvt.ltd
- Louis beerger international, inc
- Kadam environmental consultants
- Mars planning & engineering services pvt.ltd
- S.N. bhobe & associates pvt.ltd

Architects

- HCP

State Government

- Sabarmati riverfront
- Gujarat state police housing corporation ltd
- Gandhinagar Dist. Co-op milk procures union ltd
- Gandhinagar urban development authority (GUDA)
- Bhavnagar municipal corporation
- Gujarat Industrial development corporation
- Gift city
- Gujarat water resources division
- Sardar sarovar narmada nigam limited
- Jammu development authority
- SSNL
- Ranchi municipal corporation
- Rajkot municipal corporation
- Irrigation and water resources department
- Vadodara municipal corporation
- Jharkhand urban infrastructure development company limited
- Gujarat industrial development corporation
- Daman municipal council
- Maharashtra state road development corporation ltd
- Indore municipal corporation

Industrial

- Jaas steelfab pvt.ltd
- NG realty pvt.ltd
- Sun edison

MNC

- Vesta
- Shell
- Pepsi
- NLNG
- Mitsubishi heavy industries

Central Government

- Rites
- Wapcos
- Airport authority of india
- NHAI
- Amul dairy
- Container corporation of india



Irrigation & Water Resources Department
Government of Uttar Pradesh
Serving the nation since 1823



Gujarat Industrial Development Corporation
A Government of Gujarat Undertaking



Mumbai Metropolitan Region
Development Authority





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