



CONSULTING ENGINEERS
ASSOCIATED ENGINEERS



Industrial Projects



Commercial Projects



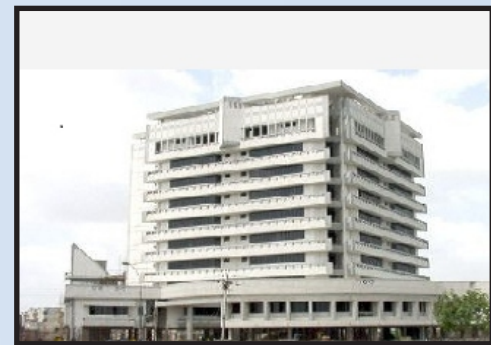
Residential Projects



Institutional Projects



Water Retaining Projects



Special Projects

ASSOCIATED ENGINEERS

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About US :

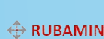
Associated Engineers established since 1982 is a registered partnership firm. Initially the firm offered Structural Design Services for Residential, Commercial, Institutional and Industrial projects. There after extended the same in to other engineering fields with perfect understanding with the Associates who joined us with their expertise in respective fields. An aptitude for working on Multi-disciplinary projects and to translate our dreams in to reality, we joined our hand with our permanent Associates who are working with us for the Industrial Projects.

Associated Engineers is having long standing experience of three decades as Consulting Engineering firm who has successfully completed no. of projects which are listed in our brochure.

Our firm is equipped with the Software facilities for analysis and design of different types of Structures. We use `STAAD' AND `STRAP' Software for computer-aided design. Our in house facilities like communication, computers, printers, are described in details given in our brochure.

We, partners are registered with the Town Planning Departments and Urban Development Authority of Vadodara, Rajkot and Bhavnagar as practicing Structural Engineers and Architects.

Our Clients





Activities & Specialties :

ASSOCIATED ENGINEERS offers their Consultancy in the following fields pertaining to the multi-face technical requirements of any Residential, Commercial, Industrial, Institutional or Community projects like Water Treatment Plant, Sewage Treatment Plant etc.

The main services are as follows:

- (1) Architectural and Interior Designing.
- (2) Structural and Civil Engineering.
- (3) Electrical systems Design Engineering.
- (4) Environmental - Water Supply and Sanitation Engineering.
- (5) Air Conditioning System (HVAC).
- (6) Mechanical Utility System.
- (7) Automation & Control.
- (8) Land Scape Designing.

(1) ARCHITECTURAL AND INTERIOR DESIGNING

- 1.1 Inspection of site for acquainting ourselves with the site and other local conditions for preparation of sketch design based on your requirement.
- 1.2 To prepare the drawing and other details based on approved sketches for obtaining the necessary approvals from the concerned authorities.
- 1.3 To prepare the block - estimate based on approved design.
- 1.4 To prepare the detailed Architectural working details for the execution.
- 1.5 To prepare the Interior design details as per the requirement along with the working details and estimates.
- 1.6 To pay the periodical site visit to check the quality of work done and its accordance with the Architectural details.
- 1.7 To co-ordinate all other activities for successful completion of the project.



(2) STRUCTURAL AND CIVIL ENGINEERING

- 2.1 Preparation of Structural design using the latest practice and computer facilities.
- 2.2 Preparation of Structural Working Drawings required at the various stages of execution.
- 2.3 Checking of Reinforcement (Typical case) placed in position prior to concreting.
- 2.4 To prepare fabrication/shop drawing for Structural Steel Work, along with Bill of Materials.
- 2.5 To check the fabrication layout, fabricated work (Typical case) during the execution.
- 2.6 To take out the detailed quantities, preparing detailed cost estimate based on prevailing market rates.
- 2.7 Preparing and invitation of pre-qualification tender for selections of the capable working agencies.
- 2.8 To prepare the Tender document based on approved specifications and conditions of contract for award of Civil work.
- 2.9 To invite the offers from prequalified bidders, scrutinizing the offers with recommendation for the working agency.
- 2.10 To check and certify the bills of the working agency.

(3) ELECTRICAL SYSTEM DESIGN ENGINEERING

- 3.1 Basic design and detailed Engineering.
- 3.2 Preparation of technical specifications for capital intensive items.
- 3.3 Invitation of bid and subsequent review of offers.
- 3.4 Techno-commercial analysis and placement of orders to prospective bidders jointly with the owner.
- 3.5 Preparation of lay-out drawings, inter connection drawings, single line diagrams, earthing and lighting lay-outs. Control and protection, schematics, cable schedules and lay-outs.
- 3.6 Stage and final inspection and routine test for guaranteed technical performance.
- 3.7 Monitoring, reviewing and taking joint decision with Owner regarding progress, constraints, resources, etc. and co-ordination of activities amongst contractor.
- 3.8 Approval of drawings form Electrical Inspector of Gujarat State.



(4) ENVIRONMENTAL - WATER SUPPLY & SANITATION ENGINEERING

- 4.1 Water Supply and Treatment for Residential / Industrial/ Commercial Complex / Colony / Town / Estate.
- 4.2 Sewerage and sewage Treatment, Storm Water Drainage and Disposal for Residential / Industrial / Commercial Complex/ Town / Estate.
- 4.3 Industrial Waste Water Treatment for individual Industry and Industrial Complex / Estate including feasibility Studies, Project Report, Detailed Engineering, detailed Cost Estimates, Occasional site supervision, Commissioning of Waste Water Treatment Plant.
- 4.4 Technical guidance and Assistance for obtaining N.A., N.O.C. and Consent from Gujarat Pollution Control design for individual Industry and Industrial Estate.
- 4.5 Ambient and Stack Air Monitoring and Air Pollution Control design for individual Industry and Industrial Estate.
- 4.6 Environmental Impact Assessment Study for total planning and development of new Industry / Industrial Complex.
- 4.7 Water Supply and Plumbing design in multi-storied buildings such as hospitals, hostels, residential and commercial complex.

(5) HVAC SYSTEM :

5.1 Conceptual Planning :

- Study of client's requirements and determining the possible solutions for the same.
- Providing information on available technologies, pro's and con's of each choice.
- Assistance in making the choice of technology by working out the budgetary estimates of capital cost, operation and maintenance cost, space requirements, time duration required for implementation, etc.

5.2 Design and Engineering :

- Detail design and engineering of the system.
- Preparation of drawings and technical specifications.
- Identifying provisions required in civil structure, electrical, water supply and plumbing work.
- Estimation of requirement of utilities, like electrical power, water, fuel, steam etc.

5.3 Procurement Assistance :

- Preparation of tender documents and drawings.
- Floating enquiries, obtaining offers, scrutinizing offers, obtaining clarifications/ confirmations from bidders.
- Preparing comparative statements, assistance in negotiation and finalization of vendors.

5.4 Supervision and Certification :

- Scheduling of site activities of the HVAC contractors, monitoring progress of work.
- Co-ordination with concerned agencies, guidance during execution of work, explaining drawings / specifications, assistance in sorting out site problems.
- Inspection of main equipment at works prior to dispatch.
- Inspecting workmanship and witnessing intermediate tests.
- Measurement of Contractor's work, certification of bills.
- Supervising testing / commissioning of the system, certification of performance of the system.



(6) MECHANICAL UTILITY SYSTEMS :

6.1 Basic Design & Planning :

- Analysis of client's requirements of utilities at various locations in the campus, and making preliminary budgetary estimate of capacity and cost of equipment & piping.
- Advising on location of utility equipment in the campus.

6.2 Details Design & Engineering :

- Preparing equipment layout for utility block, considering present requirements and future expansions.
- Preparation of P & I diagrams and layout drawings for piping.
- Preparation of technical specifications of equipment and piping work.

6.3 Procurement Assistance :

- Identify vendors and contractors.
- Preparing Bill of Quantities and Tender document.
- Obtaining and analyzing offers.
- Preparation of comparative statement.
- Assistance in negotiations.
- Preparation of Purchase Orders & Work Orders.

6.4 Supervision & Inspection :

- Inspection of major equipment.
- Guidance to contractor at site.
- Preparing & Monitoring work schedules.
- Witnessing important tests.
- Work Measurement & Certification of Bills.

7.0 AUTOMATION & CONTROL :

7.1 To ensure effective assimilation of various requirements of the process.

7.2 To assist cross co-ordination between various discipline so that proper interface of C & I package with electrical / mechanical / process is achieved.

7.3 To assist proper technology selection since automation line is a fast obsolesce one.

7.4 To assist proper vendor selection so that superior project quality is achieved within estimated project budget.

7.5 To ensure proper Documentation, Training and Post Execution support.

8.0 LAND SCAPE DESIGNING :

8.1 To prepare the Master - Lay out plan for the Land Scaping of the total area.

8.2 To prepare the individual scheme of each unit covered under Master-Lay out.

8.3 To work out the cost - estimate based on approved Lay out.

8.4 To detail the each segment of land scape design viz. Mounts, foundations, road sides plantations Rockery, selection of plants, etc.



Our Strength :

Associated Engineers is a team of professionals, technocrats, associates, specialists and experts like Architects, Civil Engineers, Structural Designers, Interior Decorators, Surveyors, Infrastructure Planning etc. and working together to serve better, timely and efficient work to any of the projects and challenges.

Our Motto

Time & Cost consciousness and team work is the key of our successful working. Utmost consideration to the client's requirement, due respect and regard to every client's need and providing total satisfaction is our motto. Quality consciousness, cost awareness and conciliator attitude are means of our successful operation of every project.

Our Strategy

Our strategy is perfect planning, proper monitoring, rigorous follow up and spot decision making, which has ensured positive end results & zero error performance. We understand that the quality is not achieved by accident but is gained by distinct care and constant intelligent efforts. Cost effectiveness or economy cannot be gained by cutting corners or sacrificing quality but from innovative approach and intelligent inputs.

Our Team

| Name | Designation | Qualification | Experience |
|--------------------|-------------|----------------|------------|
| Mr. Anand Andharia | Partner | M.E. Structure | 35+ |
| Mr. Mahesh Bhavsar | Partner | M.E. Structure | 35+ |
| Mr. Hemant Surti | Partner | B.E. Civil | 14+ |
| Mr.Nimit Bhavsar | Partner | B.E. Civil | 10+ |

Our team of technical advisers in an organization having highly motivated, dedicated and determined engineers, assisted by experienced enthusiastic and expert managerial team of staff, from varied expertise and diverse discipline (Specialties).



Projects :

Overview of few Projects executed Directly / Indirectly :

1. Industrial Projects
2. Commercial and Residential Projects
3. Institutional Projects
4. Water Retaining Projects
5. Special Projects



MAJOR INDUSTRIAL PROJECTS

| Sr. No. | PROJECT | Approx. Cost Rs. in Lacs. |
|---------|--|---------------------------|
| 1. | Factory Complex for M/s. United Phosphorus Ltd. at Vill. Gopipura. | 150.00 |
| 2. | Rubber Plant for M/s. TRNSPACK IND. at. Vill. Ekalbara. | 50.00 |
| 3. | Baroda Alloys & Castings Ltd. Village Tundav, Ta. Savli. Dist. Baroda. | 75.00 |
| 4. | Baroda Extrusion Ltd. Village Garadhiya Ta. Savli, Dist. Baroda. | 50.00 |
| 5. | Factory Complex for Sanjay Chemicals Ltd. Village Pipodara, Dist. Surat. | 80.00 |
| 6. | Sugar Factory Complex for Shri Narmada Khand Udyog Sahakari Mandali Ltd. Village Dharikheda, Near - Rajpipla. | 600.00 |
| 7. | Industrial Complex for United Phosphorus Ltd, at Vill. Gopipura, Ta. Halol, Dist. Panchmahal. | 120.00 |
| 8. | Detailed Engineering for three Nos. R.C.C. Auxilliary Pumping Stations at various places viz. Gorva, Kalali Fanta and Kevda Baug for Baroda Municipal Corporation. | 95.00 |
| 9. | Factory Complex for Gujarat Speciality Lubes Ltd. , near vill. Anakhi, Taluka - Jambusar. | 55.00 |
| 10. | Expansion of Factory Complex for GE Apar Ltd. , near vill. Limbasi, Dist. Kheda. | 37.00 |
| 11. | Expansion of Factory Bldg. for Gandhi Special Tubes Ltd. at Baska. Ta. Halol. | 80.00 |
| 12. | Factory Bldg. for Taj Haber Dashery Pvt. Ltd. at Manjusar G.I.D.C. Ta. - Savli, Dist. Vadodara. | 50.00 |
| 13. | Industrial Complex for Ashapura Volclay Ltd., at Bhuj, Kutch. | 400.00 |
| 14. | Factory Complex for M/s. Zydex Industries, Vill. Luna, Ta. Padra. | 150.00 |
| 15. | Industrial Complex for L.K.India Ltd. at Jarod, Ta. - Waghodia. | 225.00 |
| 16. | Industrial Complex for Netafim Irrigation India Pvt. Ltd. at Manjusar G.I.D.C. Ta. - Savli, Dist. Vadodara. | 465.00 |



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| 17. | Expansion of Industrial Complex for Birla N G K Insulators Pvt. Ltd. at Meghasar, near Halol, Dist. Panchmahals. | 400.00 |
| 18. | Expansion of different Plant Buildings and Administration Building for India Malt Pvt. Ltd. at Manjusar, Ta. - Savli, Dist. Vadodara. | 100.00 |
| 19. | Extension of Laboratory Building for E I Dupont India Pvt. Ltd. at Manjusar, Savli G.I.D.C., Dist. Vadodara. | 50.00 |
| 20. | Expansion of different Plant Buildings and Green Field Projects for G. A. C. L. at Dahej, Dist. Bharuch | 300.00 |
| 21. | Expansion of different Plant Buildings for G. A. C. L. at Petrochemicals, Ranoli, Di. Vadodara. | 100.00 |
| 22. | Expansion of Factory Buildings for Kemrock Industries & Exports Limited, at Asoj, Ta. Waghodia, Di. Vadodara. | 450.00 |
| 23. | Food Processing Plant for Himalaya International Ltd. at Vadnagar, Dist. Mehsana, Gujarat. | 1800.00 |
| 24. | Bio Tech Plant for Zytex Bio Tech at Manjusar G.I.D.C. Ta. Savli, Dist. Vadodara. | 360.00 |
| 25. | Tissue Culture Project for Gujarat State Fertilizer Co. Ltd at G S F C Premises, near Vadodara. | 1200.00 |
| 26. | Construction of Production Plant, Utility Building, Administration Building, Pipe rack etc. for Himalaya International Ltd. At Vadnagar, Dist. Mehsana | 300.00 |
| 27. | Structural Design & Detail Engineering of Hexamine Plant Building and Ware House for M/s. Kanoria Chemicals Ltd. at Vaizag | 100.00 |
| 28. | Factory complex for Navsan Glass Industries at Padra- Jambusar Road | 150.00 |
| 29. | Industrial complex including Production Plant Building, Utilities Shed, Administration Building and Complete infrastructure etc for Idex Fluid and Metering Pvt Ltd at Manjusar G.I.D.C., Ta. Savli, Dist. Vadodara | 300.00 |
| 30. | Structural Designing for different Sand Plant Platforms for Kunkel Wagner(I) Pvt. Ltd. | 150.00 |
| 31. | Factory Building for Shiv Ashish Mashroom Process Plant near Anand | 200.00 |

PROJECT LIST UNDER OUR CONSULTANCY IN RECENT PAST

| Sr. No. | PROJECT | Approx. Cost Rs. in Lacs. |
|---------|---|---------------------------|
| 1. | Factory Building for Sheffield Technoplast at Manjusar G.I.D.C. Ta. Savli, Dist. Vadodara | 150.00 |
| 2. | Construction of New Plant Building, Utility & Administration Building, Canteen Building, Ware House, Loading- Unloading Shed, O.H.W.T. and complete infrastructure for Netafim Irrigation (I) Pvt. Ltd at Manjusar G.I.D.C., Ta. Savli, Dist. Vadodara. | 910.00 |
| 3. | Construction of Factory Shed for Proving facility for Elster Instromet (I) Pvt. Ltd., at Hazira for G.A.I.L. | 100.00 |
| 4. | Construction of Production unit and Ware House for Gandhi Special Tubes Ltd., at Baska near Halol, Dist. Panchmahals. | 325.00 |
| 5. | Construction of Factory Building and Utility Shed for M/s. Sayaji Packaging Pvt. Ltd., at Ta. Savli, Dist. Vadodara. (Certified I G B C factory – 2nd in Gujarat & 16th in the Country) | 200.00 |

MAJOR HIGHRISE AND INSTITUTIONAL BUILDINGS

| Sr. No. | PROJECT | Approx. Cost Rs. in Lacs. |
|---------|---|---------------------------|
| 1. | Mohid Tower – Residential & Commercial Complex at Vapi. | 100.00 |
| 2. | Indraprastha Tower 'A' at R.C. Circle, Vadodara. | 60.00 |
| 3. | Blue Chip Commercial Complex at Sayajigunj, Vadodara. | 120.00 |
| 4. | Nisarg Residential Complex at Diwalipura, Vadodara. | 200.00 |
| 5. | Aishwarya Residential Complex at Elora Park, Vadodara. | 200.00 |
| 6. | Vardhman Residential - Commercial Complex Tower I, II, III at Subhanpura, Vadodara. | 160.00 |
| 7. | VUDA Office building at V.I.P Circle, Vadodara. | 500.00 |
| 8. | V.C.C.I. Office complex at Makarpura, G.I.D.C., Vadodara. | 200.00 |
| 9. | Hempton Square Residential Complex at Fatehganj, Vadodara. | 150.00 |
| 10. | Alap I & II Commercial Complex at Rajkot. | 50.00 |
| 11. | Omkar Residential / Commercial Tower at Rajkot. | 50.00 |



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| 12. | The Emperor - Residential & Commercial Complex at Vapi. | 100.00 |
| 13. | Shukan Residential Complex at Surat. | 150.00 |
| 14. | Kailash Cancer Hospital Utility Building, Nursing School, Hospital Building, Old Peoples House, Canteen Building E.T.P. and other ancillary units for Muni Seva Ashram at Goraj Ta. Waghodia, Dist. Vadodara | 3000.00 |
| 15. | School and Hostel Building, Prayer Hall, Laboratory etc at Vankuva, Ta. Waghodia, Dist. Vadodara | |
| 16. | Cobalt unit at S.S.G. Hospital, Vadodara. | |
| 17. | Sant Kabir School at Vasna Road, Vadodara. | |

WATER RETAINING STRUCTURES

| Sr. No. | PROJECT | BRIEF DESCRIPTION |
|---------|---|---|
| 1. | Auxillary sewage pumping station for B.M.C. at KALALI. | Circular U.G.W.T. with central. deviding wall between Dry well and Wet well which is supported by Frame action. |
| 2. | Auxillary sewage pumping station for B.M.C. at VIP Road | Circular U.G.W.T. with central. deviding wall between Dry well and Wet well which is supported by Frame action. and design of cutting edge. |
| 3. | Auxillary sewage pumping station for B.M.C. at Waghodia Road. | |
| 4. | Auxillary sewage pumping station for B.M.C. at Kevada Baug. | |
| 5. | Auxillary sewage pumping station for B.M.C. at Gorwa. | |
| 6. | Water treatment plant at G.I.D.C. PANOLI. | Consisting of Clarifoculator, Filterbeds Chemical House, Laboratory, Lime store, Measuring channel, over Head Water Tank,etc. |
| 7. | Effluent Treatment plant for DINESH MILL | Consists of Primary settling Tank, secondary, Settling Tank, Sludge Drying Beds, Lime storage Tank. |
| 8. | E.T.P for H.N. DYE Chem Ltd.ANKLESHWAR. | Equalisation at Tank, Neutralisation Tank, Lime and Alum Solution Tanks, Clarifier, Aeration Tank. |
| 9. | E.T.P for Novino Batteries at G.I.D.C. Makarpura, Vadodara. | Consists of Primary settling Tank, secondary. Settling Tank, Clarifier, Aeration Tank. |
| 10. | Sewage pumping station at SARGASAN | 37.5 m 0 Wet well 15 m 0 Dry well Capacity 96 MLD. |
| 11. | Sewage pumping station JASPUR at GANDHINAGAR | 30m Wet well 15m Dry well. |
| 12. | EFFULUENT CHANNEL PROJECT DISPOSAL SYSTEM | Design of Disposal chamber & Pipe junction support.at the sea shore. |
| 13. | E.T.P.for BRITISH PAINTS AT - BANGLA DESH. | Consists of Primary settling Tank, secondary. Settling Tank, Sludge Drying Beds, Lime storage Tank, Equalisation Tank, Neutralisation Tank, Lime and Alum Solution Tanks, Clarifier, Aeration Tank. |
| 14. | E.T.P.for Rubamin at Dabhasa, Ta. Padra.Dist. - Vadodara. | Consists of Primary settling Tank, secondary. Settling Tank, Sludge,Drying Beds, Lime storage Tank, Equalisation TankNeutralisation Tank, Lime and Alum Solution Tanks, Clarifier, Aeration Tank. |
| 15. | U.G. Sump of 40.0 lacs litres capacity for Vadodara Municipal Corporation. | |
| 16. | Pumping stations / sumps for Narmada Water Resourses & Water supply Department. Govt. of Gujarat. | Design of Pumping stations & sumps. |



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Few of Our Clients



| Sr.No. | Name of Client | Location |
|--------|--|-----------------------------------|
| 1. | Kailash Cancer Hospital, Muni Seva Ashram | Goraj, Vadodara |
| 2. | Himalaya International Ltd | Vadnagar, Dist. Mehsana |
| 3. | Gujarat State Fertilizer Co. Ltd | Fertilizer Nagar, Vadodara |
| 4. | Netafim Irrigation (I) Pvt. Ltd. | Manjusar GIDC, Savli, Vadodara |
| 5. | Kemrock Industries & Exports Ltd | Asoj, Dist. Waghodia, Vadodara |
| 6. | Kanoria Chemicals Ltd | Vizag |
| 7. | Birla N G K Insulators Pvt. Ltd | Meghasar, Halol, Dist. Panchmahal |
| 8. | Shree Naramada Khand Udyog Sahakari Mandli Ltd | Dharikheda, Rajpipla |
| 9. | United Phosphorus Ltd | Gopipura, Ta. Halol, Panchmahal |
| 10. | Baroda Alloys & Castings Ltd | Tundav, Savli, Vadodara |
| 11. | Transpack Industries Ltd | Ekalbara |
| 12. | Baroda Extrusion Ltd | Garadiya, Savli, Vadodara |
| 13. | Sanjay Chemicals Ltd | Pipodara, Surat |
| 14. | Vadodara Municipal Corporation | Vadodara |
| 15. | Gujarat Speciality Lubes Ltd | Anakhi, Jambusar |
| 16. | GE Apar Ltd | Limbasi, Dist. Kheda |
| 17. | Gandhi Special Tubes Ltd | Baska, Halol |
| 18. | Haber Dashery Pvt. Ltd. | Manjusar GIDC, Savli, Vadodara |
| 19. | Ashapura Volclay Ltd | Bhuj, Kutch |
| 20. | Zydex Industries | Luna, Ta. Padra |
| 21. | L K India Ltd | Jarod, Ta. Waghodia |
| 22. | India Malt Pvt. Ltd. | Manusar GIDC, Savli, Vadodara |
| 23. | E I Dupont India Pvt. Ltd. | Manjusar GIDC, Savli, Vadodara |
| 24. | Gujarat Alkalies & Chemicals Ltd | Dahej, Bharuch & Ranoli, Vadodara |
| 25. | Zytex Bio Tech | Manjusar GIDC, Savli, Vadodara |
| 26. | Navasan Glass Industries | Padra Jambusar Road |
| 27. | Idex Fluid and Metering Pvt. Ltd. | Manjusar GIDC, Savli, Vadodara |
| 28. | Shiv Ashish Mashroom Process Plant | Anand |
| 29. | Sheffield Technoplast | Manjusar GIDC, Savli, Vadodara |
| 30. | Elster Instromet (I) Pvt. Ltd. | At Hazira for GAIL |
| 31. | Sayaji Packaging Pvt. Ltd. | Savli, Vadodara |
| 32. | Vadodara Urban Development Authority (VUDA) | Vadodara |
| 33. | S.S.G. Hospital (Cobalt Unit) | Vadodara |
| 34. | Sant Kabir School | Vasna, Vadodara |
| 35. | Dinesh Mills Ltd | Vadodara |
| 36. | H N Dye Chem Ltd | Ankleshwar |
| 37. | G I D C | Panoli |
| 38. | Novino Batteries (Panasonic) | GIDC Makarpura, Vadodara |



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