



Inspire-Innovate-Integrate



Vasundara Automation &
Engineering Services Pvt. Ltd.

About Us

Vasundara Automation and Engineering Services Pvt Ltd (VAES) is a turnkey solution provider with experience in various Industry verticals. VAES is involved in EPC, Engineering, Industrial IT, Instrumentation, Process & Discrete automation projects. VAES also provides training, consultancy & Project management services.

VAES help clients assess their needs, engineer and implement the right technology from today's industry leading providers of hardware, software, tools, and other enabling technologies. This assures a custom-tailored solution that not only integrates with existing process and multi-vendor environments, but also provides a growth path to the future.

VAES has completed major projects resulting in the implementation of Process requirements such as Piping Instrumentation and Reactor vessels, Automation, SCADA, Distributed control systems involving thousands of I/O and a variety of manufacturer's hardware and software. Our scope of supply typically includes - The conceptual design, Detailed engineering of Electrical, mechanical and P&ID, Procurement, Piping, Vessels and Instrumentation installation and commissioning along with Pumps and Motors, Mechanical conveyor systems, Panel building and Field Wiring, PLC and HMI programming and development, Data management, Reconciliation and Reporting, Networking, Drawings and Documentation, and Installation supervision.

VAES currently operates from 3 offices in Bangalore, an office in Chennai and an office in Hyderabad to take care of customers in India. VAES is also located in UAE to take care of customers in Middle East. We have manufacturing facility in Bangalore and Sharjah backed with state of art ERP and networking systems between all our offices for free flow of information.

Our Vision

"To be a global engineering company most admired for its people, integrity, commitment & excellence"

Our Mission

"To provide reliable and best of industrial project services and solutions, with innovative engineering, honest pricing and building long term relationships through customer satisfaction"

VAES also caters to manufacturing segment with Vasundara Manufacturing Systems, a subsidiary company located in Peenya, a major industrial hub of Bangalore. Activities related to mechanical automation such as developing CNC machines, SPMs, Robotics, Mechanical Design and Assemblies of fixtures, machines and any mechanical structures are done here.

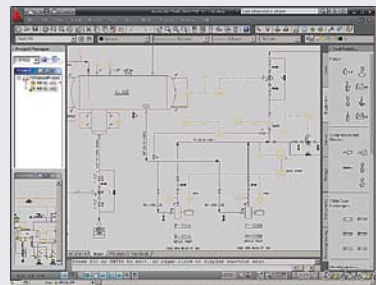
We have executed projects in various locations of India, South Asia, South East Asia, Middle East, Central Asia, Europe, Africa and US. Our customers and vendors include both domestic and international players, thus giving us exposure to different standards, policies and process required by our diversified clientele.

VAES has committed and customer oriented team to deliver. With latest technology and involved project management, we have been able to complete each and every project, even the most complicated ones to the satisfaction of our customer.

Control and Automation

This division of VAES has expertise in Industrial Automation and Process Automation solutions. VAES has executed large number of projects with various complexities. VAES builds Control and MCC panels and develops software for the automation components. The expertise available with this division are

- Panel and MCC assembly
- Engineering Design and development using CAE tools
- Integrated Automation(PLC) software and HMI software
- Supervisory Control and Data Acquisition System
- Remote and Distributed IO system
- Distributed Control Systems
- Hardware and Software Redundancy
- Failsafe systems
- Bus bar distribution systems
- Non compartmentalized MCC
- Networking by various protocols such as Profibus, Industrial Ethernet, Modbus, CAN Bus, USS etc
- Transmission technologies such as Optical, Wireless
- Application of Drives – AC, DC, Servo etc for control, positioning etc
- PC based automation With associated Hardware and protocols
- PC Software assisted automation with Visual Studio, ASP and HTML
- OPC Servers and Clients
- Database handling and reporting
- System connectivity and data collection via standard protocols including GPS



Engineering Services Outsourcing

Through our experiences in the various engineering and management disciplines across varied industry we have created an arm to deal with the specific need of today's industry – Engineering Services Outsourcing. The range of services which can be outsourced to us in the various disciplines are

- Drafting and 3D modeling
- Piping
- Electrical and Instrumentation Engineering
- Control system and Automation Engineering
- Reverse Engineering

This division has been created to the address the varying needs of our customers, usually reputed consultants who require short term resources on specific projects to address their overall goals.

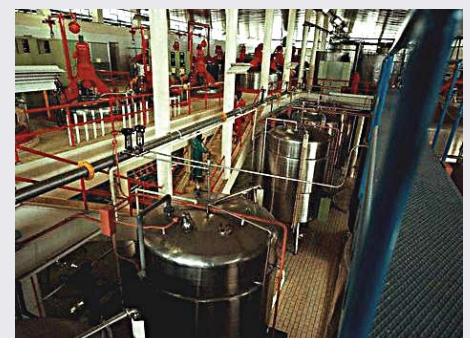


Turnkey projects

Our full spectrum of services from plant conceptualisation to the plant design and construction, combined with robust Project Management enables us to execute turnkey project solutions. Our clients are benefited by this unique model and ensure they have a single window for their needs. The added benefit would be on time and cost which are paramount for any project being implemented today. Vasundara is supported by a wide network of consultants, associated partners, wide base of supplier network to cover all aspects and needs of a project.

We have developed our processes to offer both the Stick Build and Skid Build models for execution of projects. The following services are provided to our process plant clients

- Consulting
- Master Planning
- Preliminary and Detailed Engineering
- Manufacturing
- Procurement
- Construction and Construction Management
- Project Management
- Commissioning
- Qualification
- Validation
- Maintenance Support



Machine Tools and mechanicals

VAES through its sister concern Vasundara Manufacturing Systems does build machines and take up projects in mechanical engineering. Primary activities of VMS are -

- Mechanical Engineering – Design, Manufacturing and Assembly of Machines
- Fixtures design and manufacturing
- Machine Tools
 - CNC Machines
 - Conventional
- Special Purpose Machines
 - Testing machines
 - Measurement and control
 - Assembly lines etc
- Retrofitting and Reconditioning
 - Electrical
 - Control systems – CNC /PLC
 - Drives – AC/DC/Servo, Stepper etc
 - Mechanicals
- Software development and commissioning of CNC/PLC machines
- Robotics
 - Assembly
 - Welding
 - Material Handling etc



Enterprise Applications

VAES has built up its expertise in Manufacturing Execution Systems and Enterprise wide Resource Planning. Our dedicated team has wide experience in various Industry verticals and experience in Implementation and support for various applications of MES and ERP and we can address core requirements of any Manufacturing operations in the following areas:

- Integration with Business/ERP/ Legacy systems.
- Interface to Production Planning systems
- Work Order Management
- Workstation Management
- Tooling Management
- Labor Management and Effort Reporting
- Inventory Tracking and Traceability
- Material Handling
- Automated Data Collection and Management
- Production Control and Exception Management
- Maintenance Management
- Quality Assurance
- Supplier Interface
- Technical Consulting in SAP and Microsoft Dynamics
- Functional Consulting SAP and Microsoft Dynamics
- Solution implementation and Support of SAP and Microsoft Dynamics
- Upgrade Assessment and upgrades of ERP and database systems

Instrumentation

VAES has expertise in working with various types of instruments and sensing devices in many domains. Following are the activities performed in this department

- Design & Engineering of the project
- Procurement and supply of Field Instrumentation Equipment, installation materials, cables, conduits, control valves, impulse lines, instrument control panels, consoles, desks
- Installation of instruments, control valves, analytical instruments
- Cable laying, wiring and termination
- Start up, testing and loop testing
- Commissioning with PLC control system



Domains



Breweries



Distilleries



Pharma



Chemical



Food & Beverages



Cement



Steel

VAES Learning Centre

Goal : To provide technical training as per the requirement of industry.

Services : • Corporate training
• Finishing school • Training Consultancy

Corporate Training

- Surface Mount Technology (SMT), ESD, ESS
- Electromagnetic Compatibility (EMC)
- PLC – Basics and Advanced
- Drives
- HMI / SCADA
- Industrial Networking & Communication
- DCS

Finishing School

As technologies rapidly evolve, differences emerge between the knowledge imparted by an academic institution and the competencies required by the industries.

- Certificate in Industrial Automation
- Advanced Diploma in Automation
- Embedded Hardware Design

Training & Consultancy

VAES has the expertise in:

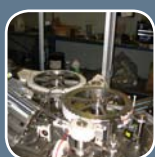
- Setting Up Industrial Automation Centre
- Setting Up Electronic Board Manufacturing Unit at the Client's premises.
- Development of Learning material
- Training the trainers

Partners in Progress

- Channel Partner for Siemens
- Solution Provider Partner for Automation and PCS7
- Non compartmentalized MCC Panels with Rittal Products
- Isostatic Press and Manipulators with Ujwala
- Channel Partner for GE for enterprise application
- All our customers are partners



Automobile



Machines



Power
Generation &
Distribution



Aeronautical



Airport



Water
Treatment

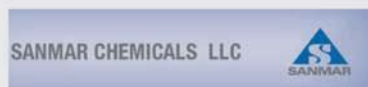
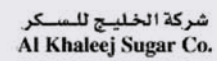
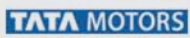


Press



Material
Handling

Clients



Project References

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| 1 | Milk Processing Lines at Mother Dairy, Gujarat, India |
| 2 | Brewery at United Breweries, India |
| 3 | Chemical Plant at TCI Sanmar, Egypt |
| 4 | Baggage Handling Systems at BIAL, MIAL and DIAL, INDIA |
| 5 | Production Lines at Procter & Gamble at Himachal Pradesh, India |
| 6 | Gas Treatment and Pressure Reduction Station at DEWA, Dubai |
| 7 | Gas Treatment and Pressure Reduction Station at HIDD, Baharain |
| 8 | Water Treatment Plant at Oman Fertilizers, Oman |
| 9 | Cement Plant at HOLCIM, Gauled, Sri Lanka |
| 10 | Cement Plant at Italcementi, Kazhakstan |
| 11 | Power Distribution at KASCO, Kuwait |
| 12 | Coke Oven Plant at JSW Steel, India |
| 13 | Hot Strip Mill at JSW Steel, India |
| 14 | Cold Rolling Mill at Stelco Strips, India |
| 15 | Lignite Handling at GIPCL, Gujarat India |
| 16 | Material Handling Systems at Vizag Sea Port, India |
| 17 | Gypsum Board Production at Saint Gobain, India |
| 18 | Special Purpose Machines at Ashok Leyland, India |
| 19 | Transfer Lines for EDC Pumpset Bosch, India |
| 20 | Engine Assembly Line for Ford at HM, India |
| 21 | Testing Machines at TVS, India |
| 22 | Welding Robots at TVS, India |
| 23 | Retro Fitting of Cam Grinding Machines at BEML, India |

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| <p>India Office Unit 2 76/77, Govardhana Gardens, J C Industrial Area, Bangalore - 560 062 Ph: +91 80 65617966 Fax: +91 80 26860009</p> | <p>Middle East and Africa HO : United Arab Emirates P.O. Box : 9721 NE4-06, SAIF Zone, Sharjah, United Arab Emirates Ph: +971 6 5574708 Fax: +971 6 5574709 e-mail: mea@vasundara.com</p> |
| <p>India office - Chennai Old # AP-864, New # AP-29, H-Block, 2nd Street, 12th Main, Annanagar, Chennai - 600 040 Ph: +91 44 26161108 Fax: +91 44 26260108</p> | <p>MEA Office - Oman Mr. Pankaj Sharma C/O Al Ansari Trading Enterprises LLC – Marketing Division. P.O. Box: 1832, Ruwi, PC 112 Sultanate of Oman Ph: +968 24810033, Cell: +968 97309701 Fax: +968 24812522 e-mail: pankaj@vasundara.com</p> |
| <p>India Office - Hyderabad #1-10-1/3, Ashok Nagar, Street No.5, Hyderabad – 500 020 Ph: +91 98800 06941 e-mail: guru@vasundara.com</p> | <p>MEA Office - Kuwait Mr. Pranav Vidyarthi. C/o Insyst Company for General Trading & Contracting. P.O. Box: 38006 Abddulla Salem 72551, Kuwait Ph: +965-249199378/38 Fax: + 965 249199334, Cell - +965 67639604 e-mail: pranav@vasundara.com</p> |
| <p>India Office - VMS No. 36-B, 2nd Phase, NTTF Circle, Peenya Industrial Area Bangalore -560 058 Ph: +91 80 28395728 Fax: +91 80 28390644 e-mail: vinay@vasundara.com</p> | <p>Registered Office No. 48/49, 2nd Floor, Sarakki Main Road J.P. Nagar 1st Phase Bangalore – 560 078 Ph: +91 80 42924700 Fax: +91 80 22446024</p> |



Vasundara Automation & Engineering Services Pvt. Ltd.

48/49, 2nd and 3rd Floor, Sarakki Main Road, I Phase,
J P Nagar, Bangalore - 560078, Karnataka, India
Phone : +91-80-42924700 Fax : +91-80-22446024
Email: query@vasundara.com
www.vasundara.com