



CHETAK ELECTRONICS

TURNKEY ELECTRICAL & AUTOMATION SOLUTIONS
PRYSMIC ENGINEERING PVT.LTD.

AN ISO 9001:2015



Sr. No. 7/2, Saidatta Nagar, Taljai Pathar, Dhankawadi, Pune,
Maharashtra India - 411043.,

www.chetakelectronics.com

CHETAK ELECTRONICS is incorporated in **2004** which is the division of **CHETAK GROUP (MARCH 1999)**. Since many years with the firm name '**M/S. CHETAK ENTERPRISE**' is the parent firm already in market. Last year in 2017 we have opened our new company by name **PRYSMIC ENGINEERS PVT LTD**.

We offer our customers a single source of vendor-independent expertise in all technologies that encompass industrial automation from Instrumentation and Electrical engineering (I&E), to the design and integration of control and data gathering systems, through development of critical information and data management systems.

CHETAK ELECTRONICS is a vendor-independent engineering consulting company. This allows us to leverage our process and system knowledge to assist our clients in the selection of equipment and software that best meets your unique business and operational requirements. Our vendor-independence also benefit to our clients through the internal experience with many vendor systems in the various technologies that we work with, including DCS, HMIs, RTUs, PLCs, SCADA, Transmitters & Valves, various protocols Fieldbus, Profibus, Modbus etc, BMS, safety systems, Electrical panels like MCC, PCC, VFD, APFC, LT/HT panels.

In addition, as technical specialists in industrial automation, **CHETAK ELECTRONICS** routinely represents our clients in an engineering capacity to ensure vendors are delivering systems and solutions as defined in contract specifications.

Project Support

CHETAK ELECTRONICS has throughout India, strategically located in proximity to client assets. This allows us to provide cost effective & responsive support and project configuration, design, and implementation services.

The Company provides the solutions on turnkey basis. Job involves process study, designing of control system, preparation of drawings, and procurement of various control elements as per design, supply of material & erection & commissioning of total system & maintenance thereafter.

Office Area: 1400 Sq.ft
Workshop Area: 5000 Sq.ft

Our technical and process knowledge, combined with our documented processes and procedures, deliver practical, cost-effective solutions that span across all industry segments.

- Oil & Gas
- Sugar, Food, Dairy & Beverage
- Refining & Petrochemical
- Pulp & Paper
- Electrical Utilities
- Chemical
- Mining / Mineral
- Infrastructure & Water Treatment

We are specialized in turnkey solutions various industrial sectors:

The Company provides the solutions on turnkey basis in Electrical & Instrumentation System. Job involves process study, designing of control system, preparation of drawings, and procurement of various control elements as per design, supply of material, erection commissioning of total system & maintenance thereafter.

- Electrical Panel- APFC, PCC, MCC, VCB, VFD, Fire Fighting, PLC, Mimic Panels.
- Instrumentation field – Transmitters, Valves, Gauges, PRDS system with design, etc.
- PLC Automation – PLC Programming, HMI/SCADA Development, installation, commissioning.

Electrical Design:

- Low voltage electrical distribution systems
- Single/Three line diagrams
- Control panels and marshalling cabinets
- Automation system architecture
- Complex automation equipment I/O, marshalling, and field cable systems
- Bus designs and complete I&E construction work packages
- Installation specifications
- Control room and rack room design and layouts
- Instrument and electrical installation details and standards
- Cable and cable tray system design
- Instrument loop diagrams
- Fixed and variable speed drive systems
- Lighting designs and calculations
- Electrical heat tracing system designs and schematics UPS selection and design
- IP-55, IP-65 like standard panels supply

Power Control Centre (PCC)

CHETAK offers Power Control Centres (PCCs) which are suitable for fault levels upto 65 KA. PCCs are designed for completely automated changeover of sources from utility power to standby generator power. PCCs are suitable for busduct or cable terminations for incomer as well as outgoing feeders. CHETAK PCCs come ready for integration with Intelligent Building Management System or with Energy Management System.

Standard Features

- Modular Construction
- Busbar Rating upto 6400 A
- Interleaved Busbars
- IP Construction to suit operating conditions
- Energy Monitoring

DG Control & Synchronizing Changeover Panels (AMF):

CHETAK is a leader in the DG Control & Synchronizing solution providers, CHETAK has successfully designed, manufactured and commissioned a number of such panels. These panels have been used for AMR applications as well as generator parallelity and mains and generator synchronizing. CHETAK is a pioneer in providing synchronizing solution using Comap generator synchronizing products.

Standard Features

- Auto On Main Failure
- Synchronizing
- Active Load Sharing
- Reactive Load Sharing
- Generator Protection

Other Features

- Powder Coated Enclosure
- Modular Design
- State of the Art Generator Controllers
- Controller suitable for all the Alternator/Engine makes
- Type 2 Coordinated Component Selection
- Easy busbar Maintenance Busbar System upgradeable at site
- Optional Common Outgoing Feeder for Synchronized Generator Power Optional Mains Feeder
- Panels also available for one
- Generator and multiple electricity Board feeder for AMF Function

Motor Control Centre (MCC)

CHETAK offers a wide range of Motor Control Centres (MCCs) in fixed and drawout type constructions. The MCCs are also available for interfacing with PLC Panels through hardware or remote I/Os. CHETAK MCCs are designed using type 2 coordinated components. MCCs are available in various options for cable entry, busbar locations etc.



Standard Features

- Compartmental or NON Compartmental Design
- Type 2 Co-Ordinated Component selection
- Single or Double Front
- Energy Monitoring
- PLC Control

Other Features

- Powder Coated Enclosure
- Modular Design
- Rear Access or Front Access option available
- Flexible Cable Entry Top or Bottom in Rear Access option
- Type 2 Coordinated Component Selection
- Easy busbar Maintenance
- Busbar System upgradeable at site
- Feeder size upgradeable at site

VFD Motor Control Panel:



Capacitor Control Panels (APFC):

CHETAK offers a wide range of Capacitor Control Panels (CCPs) which are available with Electronic or Microprocessor Based Power Factor Controller Relays that are capable of maintaining Unity Line Power Factor. The Capacitor feeders incorporate Isolators, backup fuses, Capacitor Duty Contactors. Various types of capacitors are available such as Mixed Dielectric, Gas Filled, and All Poly Propylene etc. to suit the application. Optional Series Reactance is also available for increased capacitor life.



Standard Features

- Auto/Manual Capacitor Switching
- Adjustable Delay between switching ON/OFF of Capacitors
- Compartmental or Non Compartmental enclosure construction
- Selection of capacitor on the basis of site requirement such as load characteristics, Harmonic Distortion.

Other Features

- Powder Coated Enclosure
- Modular Compartmentalized or Non Compartmentalized Design
- State of the Art Capacitor Controllers suitable for maintaining Unity Power Factor
- Type 2 Coordinated Component Selections
- Easy Switchgear Maintenance.
- Optional Series Reactance for Capacitors

FIRE Fighting Panels:

CHETAK offers a wide range of Fire Fighting Panels which are available Sprinkler, Hydraulic, Jockey, Booster Pumps with Diesel Engine Controller System also included with plumbing panels. We have supplied 1200A ACB Incomer with DG changeover system for 200HP motors to our Shapooraji palanji Clients.



Power Distribution Boards:

CHETAK offers a wide range of options in designs of Power Distribution Boards (PDBs). These options are available for cable entry / busbar material / busbar configurations. These are designed to facilitate optimum use of floor space in any facility. CHETAK PDBs are also available in various fault level ratings

Standard Features

- Fabricated out of Sheet Metal Sections on CNC machines.
- Powder Coated Enclosure.
- Modular Design.
- Rear Access or Front Access option available.
- Flexible Cable Entry Top or Bottom in Rear Access option.
- Type 2 Coordinated Component Selections.
- Easy busbar Maintenance.
- Busbar System upgradeable at site.
- Feeder size upgradeable at site.
- Optimized Space requirement.





SERVICES

We, at CHETAK, are an ISO 9001:2008 certified organization with highly skilled and experienced engineers with diversified process and system skills. We have successfully completed engineering projects across in the past 12+ Years.

We are proud to be the preferable solutions provider in the field of Automation, Electrical & Instrumentation, and Software Development.

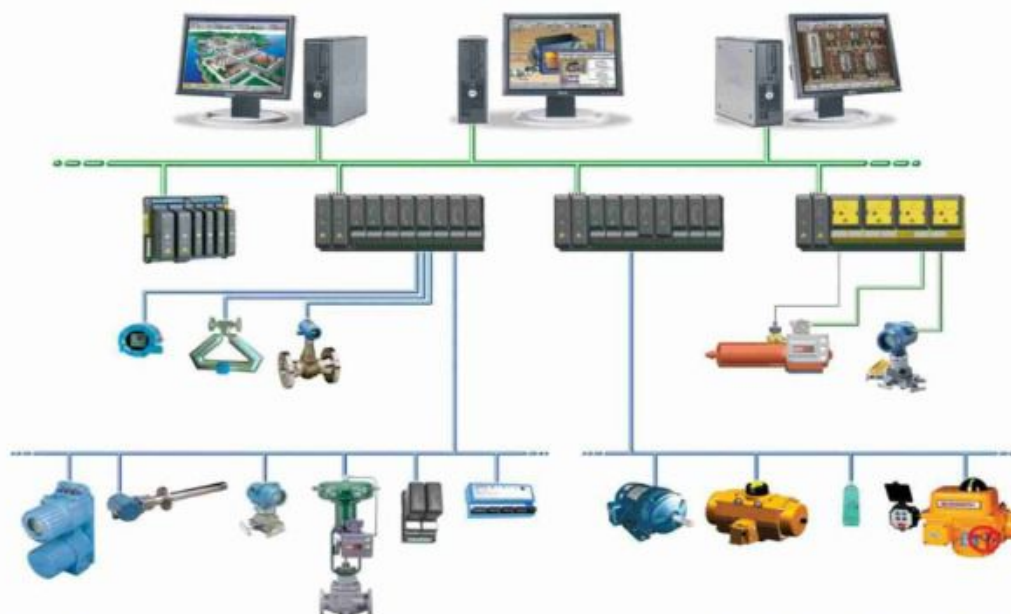
We are providing complete solutions for below company products:

PLC: AB (Rockwell), Siemens, Schneider, Fuji, Messung

DCS: Emerson DeltaV, Honeywell, Smar, ABB

VFD: ABB, Danfoss, Schneider, AB (Rockwell), Siemens, Fuji, , Kirloskar

Also all type Field Instruments.



Our Automation Services:

- PLC, SCADA & HMI Engineering
- DCS Engineering
- Safety systems & Drives Engineering
- Documentation & Specifications (FDS/ DDS)
- Pharmaceutical Validation Services
- Operator Training
- 24x7 Support

Industry Standards

- IEC- 61131
- IEC- 61850
- ISA-88/ PackML
- ISA-95
- 21 CFR Part 11
- GAMP

PLC, Drives and Safety Systems

Emerson - DeltaV BATCH Ver 9.3 to 13.3 /MD-MX-SX controllers

Siemens - S5, S7-300, S7-400 H/F, S7-1200, fail-safe Controller, SINAMICS, SIMODRIVE, SICAM

Rockwell Automation - ControlLogix, Compact Logix, SLC-500, PLC 5, PowerFlex drives, GuardLogix

Honeywell - EPKS C200, C300, R400, R410, HC900, TDC 3000, 2000, TPS/HPM, TDC Controllers

Mitsubishi - MELSEC-Q, L & F Series

FUJI-PLC/VFD

Schneider- PLC/VFD

SCADA/HMI

Emerson- Fix/Ifix

Siemens - WinCC, WinCC - Flexible, Protocol, TIA Portal

Rockwell Automation - FactoryTalk View SE/ME, RSView32, PanelBuilder32

Honeywell - HciX

Industrial Process Automation Services:

- Distributed Control Systems (DCS)
- Burner Management Systems (BMS)
- Programmable Logic Controllers (PLC)
- Supervisory Control and Data Acquisition (SCADA)
- Field Networks / Process Control Networks
- Human Machine Interfaces (HMI)
- Field Data Capture (FDC)
- Remote Terminal Units (RTU)
- Metering & Measurement
- Analyzers

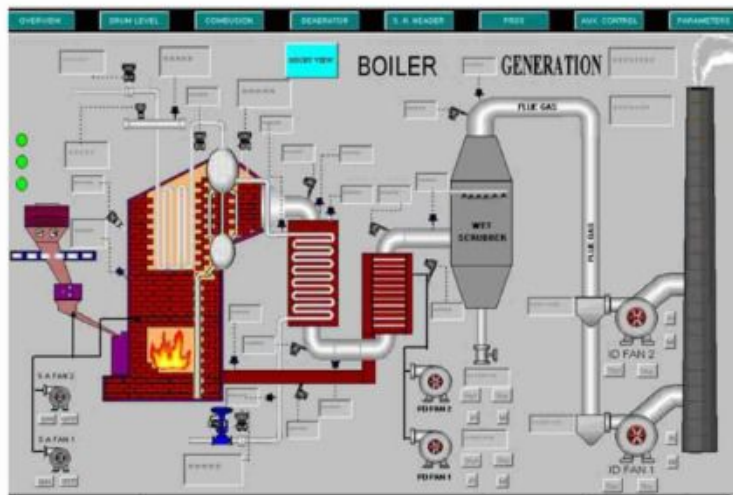
PLC Instrumentation & Control Panels

The PLC Instrumentation and Control Panels are available with and without the power modules such as air circuit breaker panels, Thyristor Drive panels. These panels incorporate the State of the Art Control Modules from Rockwell Automation, Honeywell, Siemens, FUJI etc.

Also Provide solution for Emerson DeltaV DCS

Standard Features

- PLC/PC based Operation
- Display and Monitoring Process over SCADA system.
- PLC software monitoring and upgrades over Internet.
- Interfacing with other protection & control instruments such as Thyristor Drives, PID Controllers etc
- Co-generation plant Automation- Automation for boiler, turbine & balance of plant using DCS system.



Other Features

- Powder Coated Enclosure
- Modular Design
- State of the Controllers
- Controllers suitable for all the application such as process control, equipment control etc.
- Easy component Maintenance

Company Employee: Total 25-30 count

CLIENTS



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Please see our customers in below table.

SR. NO	CLIENT NAME	LOCATION
1	SHAPOORJI PALONJI	PUNE, MAHARASHTRA
2	HINDUSTHAN UNILEVER LTD.	GOA
3	MALEGAON SAHAKARI SAKHAR KARKHANA	BARMATI, Pune
4	SOMESHWAR SAHAKRI SUGAR FACTORY	NIRA, Pune
5	WARANA SAHAKARI SAKHAR KARKHANA	KOLHAPUR
6	VITHALRAO SHINDE SAHAKARI SAKHAR KARKHANA	TEMBHURNI, Solapur
7	KARMAYOGI SAHAKARI SAKHAR KARKHANA	INDAPUR
8	CHHRAPATI SAHAKARI SAKHAR KARKHANA	Baramati , Bhavani Nagar
9	SWARAJ AGRO SUGAR	PHALATON
10	PARAG SUGAR	SHIRUR
11	DUAND SUGAR	DUAND
12	RAJGAD SAHAKARI SAKHAR KARKHANA	BHOR, Pune
13	KRUSHNA SAHAKARI SAKHAR KARKHANA	Athani, Karnataka
14	SHRIJEE ENGINEERING PROCESS	Ahamadnagar
15	NATURE DUDH SANGH DAIRY	INDAPUR
16	B G SHIRKE GROUP	PUNE
17	WORLDWIDE OILFIELD MACHINE (WOM)	PUNE
18	L. V. DAIRY	PATAS
19	INDO AUTOMOTIVE BATTERIES PVT. LTD.	PUNE
20	GABRIAL INDIA LTD.	NASHIK
21	ELECTRONICA	PUNE
22	SONAI DAIRY	INDAPUR
23	TUBE INVESTMENT OF INDIA LTD.	SHIRWAL
24	HONEYWELL	Pune
25	RAJDEEP INDUSTRIAL PRODUCTS PVT LTD BHOSARI	BHOSARI
26	SAHYOG AUTO COMPONENTS PVT. LTD. (BHOSARI)	BHOSARI
27	IMPERIAL FORGE PVT. LTD.	CHAKAN
28	SGS INDIA LTD.	CHAKAN
29	MURPHY BATTRIES	CHIKHALI AND CHINCHWAD
30	KWALITY BAKERY & SWEETS	CHIPLUN, Sindhudurg
31	M.H. PETROLEUM	DAUND
32	PRAKASH ELECTRONICS	DAUND
33	PRIMARY HEALTH CENTER (MAHARASTRA GOVERNMENT DAUND)	DAUND
34	SHREENATH BLOCK MANUFACTURING	DEVACHI URULI
35	RAJDEEP INDUSTRIAL PRODUCTS PVT LTD SANSAWADI	PUNE
36	PENNANT ENGINEERING PVT LTD	PUNE
37	DANA INDIA TECH. CENTER	HINJEWADI
38	INDIAN SALES INDUSTRIES	HINJEWADI
39	M + W GROUP	HINJEWADI
40	SHOBHA DEVELOPERS LTD.	HINJEWADI
41	VEDANT PROPERTIES	HUNDEWADI
42	GANGADHAR NAIK & CO.	AUSA-LATUR
43	CBIL 360 PVT. LTD.	PUNE
44	JAYESH INDUSTRIES	PUNE
45	PURAK INDUSTRIES	PUNE

46	SAINATH HOSPITAL (DR. MANGADE)	PUNE
47	SHREERAM ENTERPRISES	PUNE
48	TRIMURTI ENGG & WELDING WORKS	PUNE
49	SHIVRAJ INDUSTRIES	KEDGAON
50	EKBOTE LOGS & LUMBERS PVT. LTD.	KHED SHIVAPUR
51	KRAFT POWERCON INDIA PVT LTD	KHED SHIVAPUR
52	DR. RAO'S ADVANCED DENTAL CARE CENTER	KOREGAON PARK
53	ACN CONSTRUCTIONS PVT LTD	PUNE
54	AMEYA FOOD CHEM PLAST SYSTEMS PVT. LTD.	PUNE
55	SAMCOMP SYSTEMS	PUNE
56	TALWALKAR BETTER VALUE FITNESS	PUNE
57	HUNDAL & COMPANY	KURKUMBH MIDC
58	MAX FOODS	MAHAD MIDC
59	RAJDEEP INDUSTRIAL PRODUCTS PVT. LTD.	MARKAL
60	NANDED CITY DEVELOPMENT & CONSTRUCTION CO. LTD.	NANDE-PUNE
61	PUNE PEOPLE CO-OPERATIVE BANK LTD.	PERUGATE
62	TASGAONKAR INDUSTRIES PVT. LTD.	PHALTAN
63	MAN AJWANI INFRA CONSTRUCTION LTD.	PIMPRI
64	CHAMP ENERGY PVT. LTD.	PIRANGUT MIDC
65	PRECIENT COLOR LTD.	PIRANGUT MIDC
66	SURYA HARDWARE ELECRICAL & PLY	PUNE
67	WEENER EMPIRE PLASTICS LTD.	RANJANGAON MIDC
68	RAJDEEP INDUSTRIAL PRODUCTS PVT LTD VADGOV	SANASWADI
69	FASTTRACK SOLUTIONS	SASWAD
70	ELECTRONICA MACHINE TOOLS LTD.	SASWAD
71	BRUCKNER GROUP	SHIRWAL
72	DSQUARE TECH IMPEX PVT. LTD.	SHIVNE
73	PENNANT ENGINEERING PVT LTD	SHIVNE and WADKI
74	POWERTECH ENGINEERS	SHIVNE
75	CANDID SERVICES	PUNE
76	TEAK STAFFING	VIMAN NAGAR
77	ANUP PRINTERS	PUNE
78	MURPHY BATTRIES	PUNE
79	MEDIRAIL SYSTEMS	PUNE
	And more than 250 clients	

Address:

CHETAK ELECTRONICS, Pune

SINCE 2004

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Sr.No 7/2, Sai-Datta Nagar, Dhankawadi,
Pune-411043.

Workshop Office:

Sr. No. 49/3/2, Shri Co-op Society, Gujarwadi, Katraj,
Pune-411046

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