



**KEAS Control Systems India Private Limited**

**ENGINEERING**

Forefront of Technology





## KEAS CONTROL SYSTEMS INDIA PRIVATE LIMITED

KEAS was established in the early 21st century as a private Limited Company to Provide quality Engineering, Procurement and Construction services to major industries in core sectors such as Oil and Gas, Power, Steel, Cement, Chemicals etc. KEAS is a technology-driven company that infuses Engineering with imagination. With an experience spanning nearly a decade, we offer a wide range of advanced solutions, services and products.

Our Company's successful growth over the years can be attributed to our deep understanding of economic stimuli and customer needs, and our ability to translate them into customer-desired offerings Globally. Our in-house technical capabilities are complemented by tie-ups with worldwide market leaders. We provide state-of-the-art services and solutions to a large and diverse customer base.

KEAS Controls provides art of engineering in the forefront of technology to diverse industries ranging from oil & gas, steel and power. Our clients benefit from our superior competency in these industry disciplines through our gamut of services.

Our domain experts across multi disciplinary engineering disciplines, our commitment extends to more than just delivery parameters. Solution driven, reliability and safety are some of the key factors that are embedded on to our service delivery.

On the technical front, we have been certified by the Electrical Licensing Board of India with an ESA Grade Contractor License to execute electrical works without any limitations in voltage or Capacity.

### ENGINEERING SERVICES

Our Engineering Services encompass Conceptual Design, FEED, Basic Design and Detailed Design, all of which is carried out on distributed computing facilities connected to a Local Area Network. The major activities can be categorized in the following manner:

#### 1. Pre-bid Engineering

- a. Bid Evaluations
- b. Risk Assessment
- c. Bid Support

#### 2. Detailed Engineering

- a. Site Survey for Detailing
- b. Electrical Design
- c. Instrumentation Design
- d. Control Systems Design
- e. Telecommunication system



#### 3. Engineering Supervision Services

- a. Installation
- b. Pre-commissioning
- c. Commissioning
- d. Start-up operations
- e. As-built site survey and design

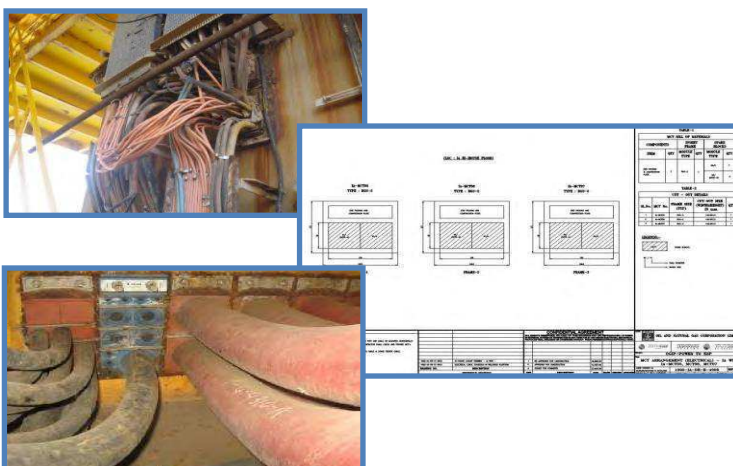
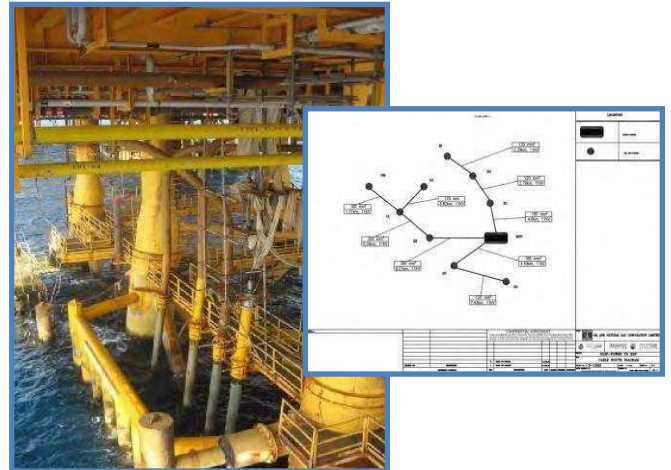


## DESIGN ENGINEERING

### ELECTRICAL

#### ENGINEERING DELIVERABLES

Electrical Single Line Diagram  
 Electrical Load List  
 Electrical Equipment List  
 Heat Tracing Specification  
 Public Address (PA) System.  
 Electrical Motor data sheet - Hot water Injection Pumps  
 Bill of material  
 E-House Panel GA Layout  
 Lighting layout  
 Cable schedule  
 Cable tray layout  
 MCT arrangement drawing  
 E-House Layout  
 Testing procedure



#### DESIGN CALCULATION

Transformer and bus bar sizing calculation  
 Selection and sizing of cables  
 Lighting Lux & Earthing calculation  
 Voltage drop calculation for lighting circuits  
 Battery and battery charger sizing calculation

#### LAYOUT

E - House layout  
 Electrical cable tray layout & cable schedule  
 Lighting layout, Earthing layout drawing  
 MCT arrangement drawing  
 Electrical I/O list  
 Electrical BOM  
 Load list analysis

#### OTHERS

Electrical cable schedule  
 Electrical I/O list  
 Electrical BOM  
 DB schedule  
 DCS / PLC, MRB, MCC, LCS interconnection drawing  
 Lighting and small power distribution drawings  
 Preparation of electrical equipment data sheets  
 RFQ's



## AUTOMATION

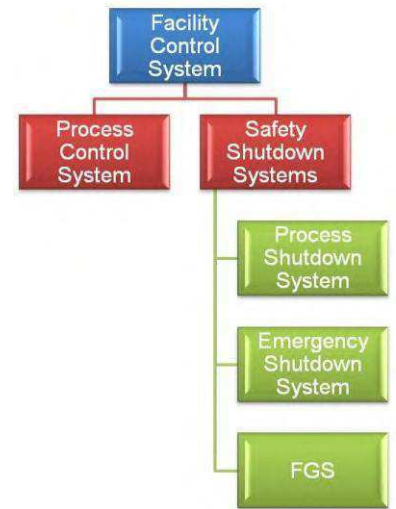
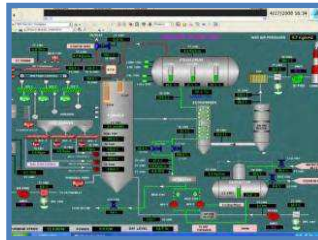
Our Competency is a result of a constant focus that has led us to develop critical insights on control and automation issues unique to these industries - insight that lead to the expedition in developing ground breaking individual solutions

### DELIVERABLES

Design  
Engineering  
Manufacture  
Fabrication  
Assembly  
FAT  
Supply  
Implementing safety  
Reliability & Quality Assurance Plan  
Testing  
Inspection  
Software Development

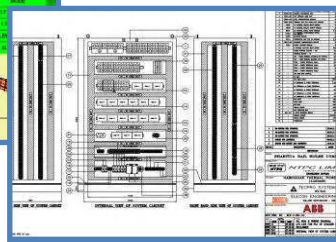
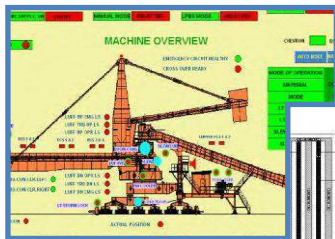
### DESIGN METHODOLOGY

- Process & Equipment status information
- Automatic regulatory control
- Abnormal Alarm for production and utility facilities



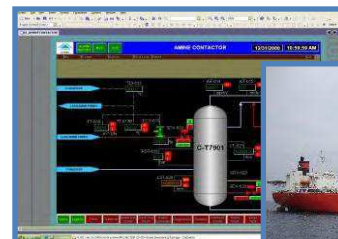
### MACHINE AUTOMATION

KEAS delivers manufacturing solutions designed with leading edge technologies to give our customers the most advanced industrial automation possible. Our machine automation solutions are dedicated to providing innovative solutions to your production line problems for a wide range of industrial applications.



### PROCESS AUTOMATION

Automation solutions from KEAS are synonymous with excellence because of our commitment to usage of superior Engineering and technology with project management. Our solutions and systems cover all industry requirements on all domains like process automation which includes oil and gas, power steel, cement, bulk material handling, machine automation and building management.

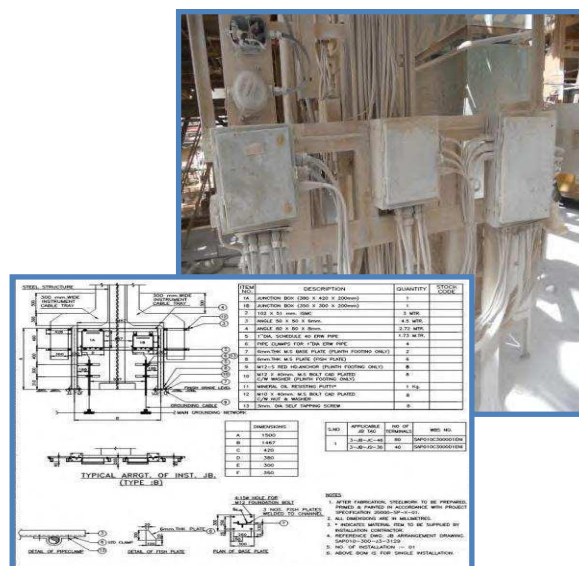
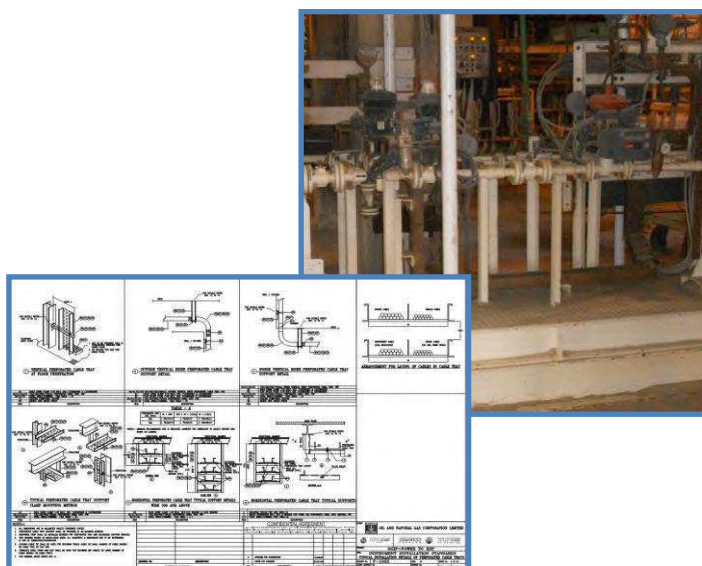
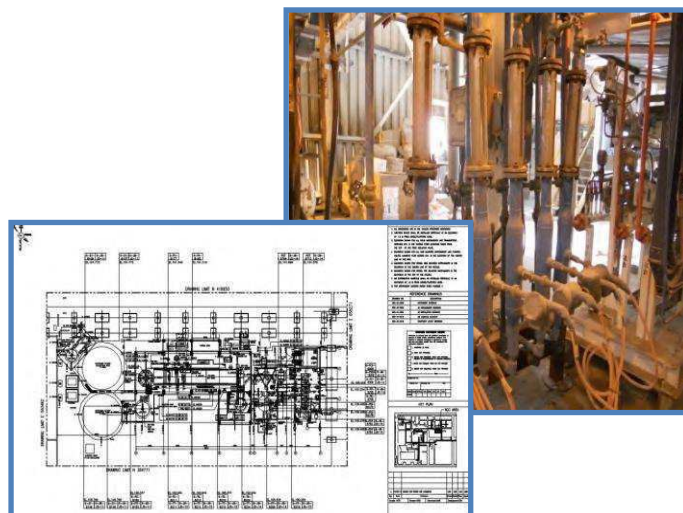


We have design, programming and commissioning expertise on the following PLC/DCS/SCADA systems

## INSTRUMENTATION

### DELIVERABLES

RMCS I/O List  
 Process hookup drawing  
 Installation standards  
 Instrument location drawing  
 Instrument support drawing  
 Cable tray  
 Cable trench  
 Logic diagram  
 Instrument loop diagram  
 Cause & Effect matrix  
 RMCS Architecture  
 Interface termination drawing  
 Fire and Gas detectors Location layout



### SUPPLY OF INSTRUMENTS

Gauges  
 Field Transmitters And Switches  
 Control Valves  
 Self Actuated Control Valves  
 Esd / Fsd Valves  
 Fusible Plugs  
 Pressure Relief Devices  
 Flame Arrestors  
 Instrumentation Fittings& Accessories  
 Smoke, Heat & Gas Detectors

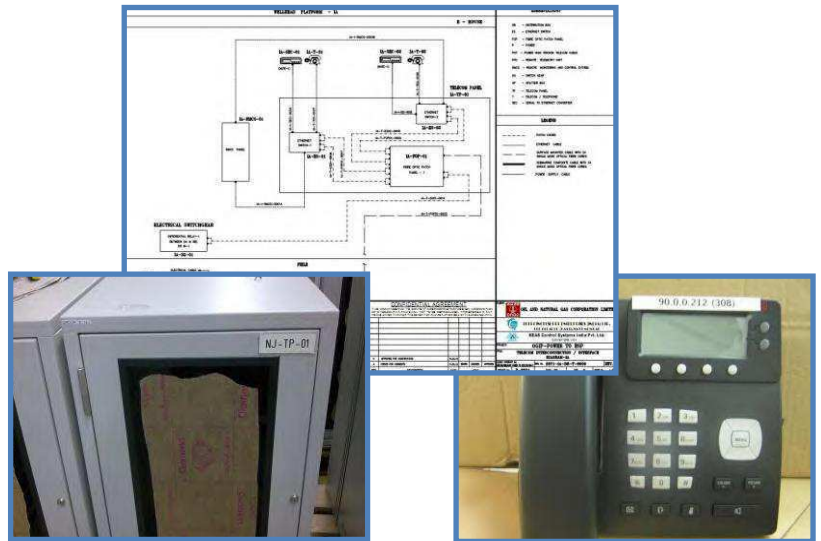




## TELE COMMUNICATION

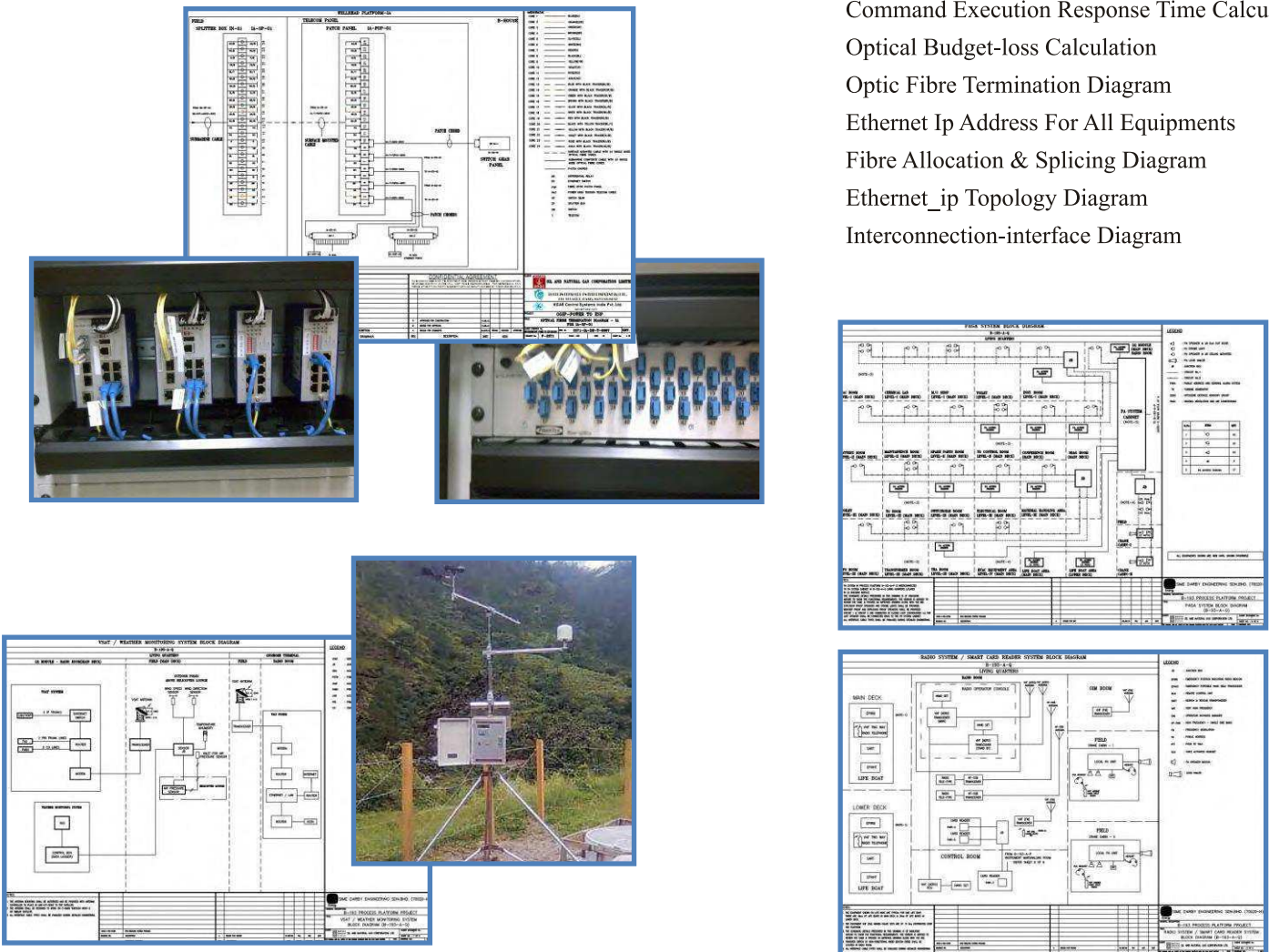
### DELIVERABLES

Telecom Design Basis  
E-PABX Datasheet  
PAGA Datasheet  
VSAT Datasheet  
Marine Radio Datasheet  
CCTV Datasheet  
Purchase specification For Telecom System  
Telecom Cable Schedule  
Telecom BOM  
Installation Scope Of Work  
Telecom Loop & Wiring Diagram  
Telecom System Block Diagram  
E-PABX System Block Diagram  
Entertainment System Block Diagram  
PAGA System Block Diagram  
VSAT System Block Diagram  
Weather Monitoring System Block Diagram  
Radio System Smart Card Reader System Block Diagram  
CCTV Block Diagram



### OTHERS

Telecom Cable Tray Routing Layout Drawing  
Ethernet Ip Fiber Optic Network Specification  
Command Execution Response Time Calculation  
Optical Budget-loss Calculation  
Optic Fibre Termination Diagram  
Ethernet Ip Address For All Equipments  
Fibre Allocation & Splicing Diagram  
Ethernet\_ip Topology Diagram  
Interconnection-interface Diagram



## OTHER SERVICES

Installation  
Supervision  
Calibration  
Testing & Commissioning  
Startup Support

### ELECTRICAL



### AUTOMATION



### INSTRUMENTATION



### TELECOMMUNICATION



### Serving you throughout

You can count on KEAS as your trusted solution provider post sales and commissioning. Be it operational support, training or induction to the system, KEAS maintains a high level of knowledge transfer for the best optimization of resources. Quicker turn around time in de-bottlenecking and trouble shooting is assured by our commitment to service.



## Our International Offices

Kuala Lumpur - Malaysia

Dammam - Saudi Arabia

## Regional Offices

Ahmedabad

Kolkata

Chennai

Mumbai

Hyderabad

## Delighted Customers Worldwide



Note: The logos featured above are the logos of the respective companies and KCSIPL is involved with these companies by providing services either directly or indirectly.



## Our Corporate Office

**KEAS Control Systems India Private Limited**

1st Floor, #438A, Kamarajar Road, Lakshmipuram, Peelamedu, Coimbatore - 641004.

Phone : + 91 422 4297601 - 610 (10 Lines), Fax : 91 422 4297611

E-mail : sales@keascontrols.com, website : www.keascontrols.com

