



VIRTUOSO PROJECTS & ENGINEERS PVT. LTD.

Design & Engineering – Automation | Instrumentation |
Electrical | Piping | Process Modelling | Plant Engineering.



ABOUT US

Virtuoso Projects & Engineers Pvt. Ltd. is an engineering solutions company specializing in **Electrical, Instrumentation, Automation, IIoT, and Industrial Software Integration**.

We deliver end-to-end solutions—covering design, engineering, manufacturing, project execution, and lifecycle services.

With strong technical depth, modern infrastructure, and a process-driven delivery model, we support industries in enhancing reliability, improving productivity, and enabling digital transformation across complex operations.



550+
Engineering Professionals



8+
Industries Served



400+
Projects Delivered



14+ Years
Industry Experience

OUR PURPOSE



To create meaningful value for skilled and talented individuals, inspire & empower them to build a long- lasting legacy that positively impacts society.

OUR VISION



To lead in engineering and technology by modernizing industries for improved efficiency, quality, safety, information accessibility & sustainability.

CORE VALUES

Value Customer



Continual Improvement



Never Give Up



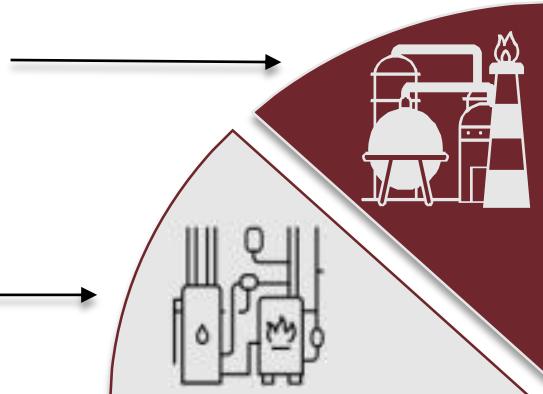
VIRTUOSO MANUFACTURING FACILITY



DOMAIN EXPERTISE

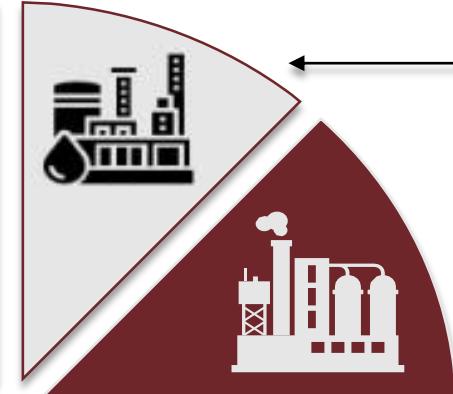
Petrochemical

SRU, Fertilizer, Cracker



Oil and Gas

Tank Farm, LNG Dispensing, Terminal Automation, Pipeline, Utilities



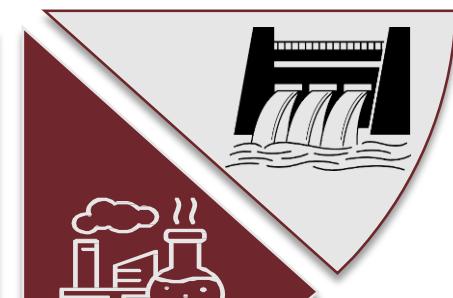
Equipment

Boiler, Compressor, Reactor, Dryer, Heat Exchanger



Sugar / Distilleries

Mill, Boiler, Boiling House, Distillery



Power

Captive Power, WHRB



Water

Desalination, Lift Irrigation, ETP/WTP/STP/RO, City/Cluster



Steel & Cement

Material Conveying, Wagon Tippler, Utility, WHRB



Chemical / Pharma

Aroma, SRU

OFFERINGS

Automation

Electrical

Instrumentation

Tank farm
Management
system

Gas
Solution

Fire &
Security

Turnkey
Projects

IOT &
Digitization

Process Eng.,
& OTS

Life Cycle
Services

Software
Services

Panel
Manufacturing

AUTOMATION

Design, Engineering, Supply, Testing & commissioning & following System

DCS

Honeywell Experion PC-C300
And UOC

SCADA

Experion HS

PLC

HC900, ML200, ControlEdge

SIL2/SIL3 System (safety system)

HC900 & SMSC

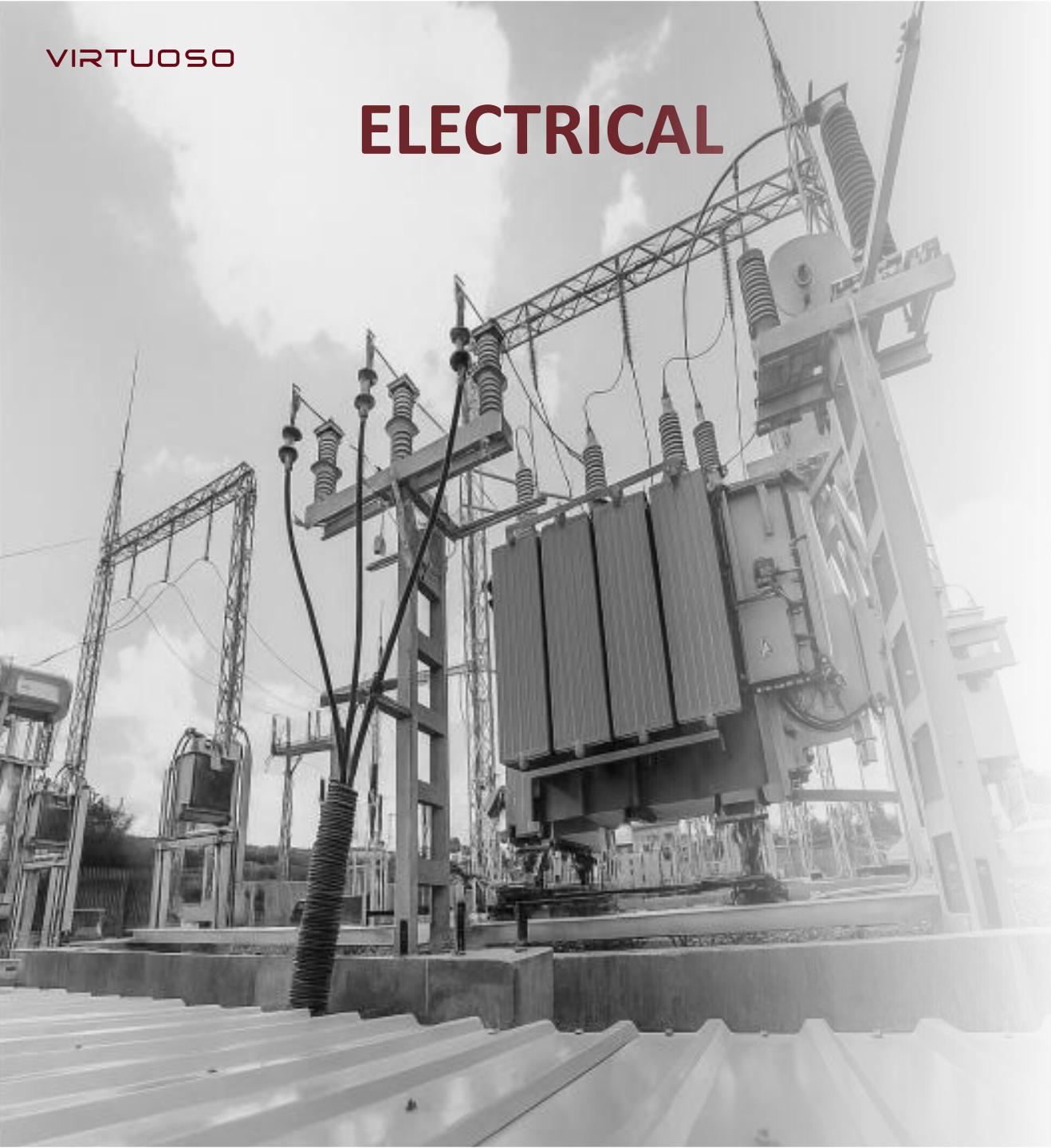
RTU

System Integration on Profibus,
Profinet, IEC41xx, Modbus,
OPC, etc



This is to Acknowledge That
Virtuoso Projects And Engineers Pvt Ltd
is an Authorized System Integrator
of **Industrial Automation** Products
in **APAC**

ELECTRICAL

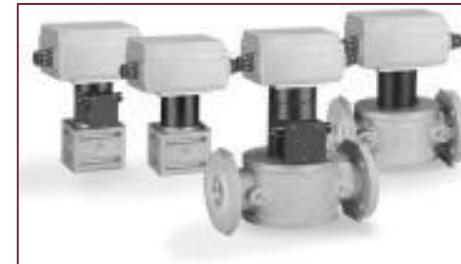


**Turnkey Projects in Electrical Design,
Engineering, Supply and Commissioning,
Switchyard to Internal Lighting system**

- **HT / LT Panel**
 - VCB
 - BUS Duct
 - Metering Kiosk
 - PCC
 - APFC
 - MCC
 - VFD
- **Transformer & Switchyard**
- **Cable Laying**
- **Cable Tray**
- **Lighting**
 - Industrial Luminaires
 - Landscape Luminaires
 - Cleanroom Luminaires
 - Street Light Luminaires
 - Commercial Luminaires
 - Battery Backup Luminaires
 - High Mast
- **Earthing & Grounding**
- **JB, DB**

INSTRUMENTATION

Design, Engineering, Supply, Testing & commissioning & following Instruments



Transmitters

- Temp. Transmitter
- Pressure Transmitter
- Differential Pressure Transmitter
- Level Transmitter
 - Process Radar
 - Ultrasonic
 - DP
 - GWR
- Flow Transmitter
 - Ultrasonic
 - Magnetic
 - DPT

Guages

1. Pressure Guage
2. Level Guage
3. Rotameter

Analyzer

1. pH Analyzer
2. Conductivity Analyzer
3. Turbidity Analyzer
4. O₂
5. Chlorine

Control Valve

1. Globe Control Valve
2. On-Off Valve
3. Butterfly Valve

Special Instruments

1. Pig Signalars
 - Intrusive
 - Non-Intrusive.

TERMINAL AUTOMATION & AUTO TANK GAUGING

Design, Engineering, Supply, Testing & commissioning & following system

- Tank Truck and Rail Wagon Loading
- Tanker Loading Metering Skids
- Tank Inventory System
- Custody Transfer Radar
- Terminal Automation System

- Flow Meter
- Batch Controller
- Radar Level
- Servo Level
- Multi Spot Temp, Sensor
- Hydrocarbon Detectors



GAS SOLUTION

Gas Regulator



Chromatograph



Flow Computer



Valves



Detectors



Chromatograph



Small Pressure
Regulator



Turbine Meter



Honeywell Elster



High & Medium
Pressure regulator



Rotary Meter

FIRE & SAFETY

Fire and Security Solutions for Complete Protection

Public Addressing System



Fire Alarm Panel



CCTV Systems



Fire System



Gas Detection



TURNKEY PROJECT

Instrumentation

- Gauges & Transmitters
- Actuators & Positioners
- Valves
- Indicators & Controllers
- Flow Meters
- Sensors & Switches
- Tanking Gauging
- Cable
- Cable tray
- JB & Glands
- Instrument Hookup
- Earthing
- Gas measurement &
- Regulation

Electrical

- HT Panel
- LT Panel
- DG
- UPS
- Power distribution
- Transformer
- Lightings
- Cables Tray & Cable
- Street Lights
- Earthing
- Electrical liaisoning

Automation

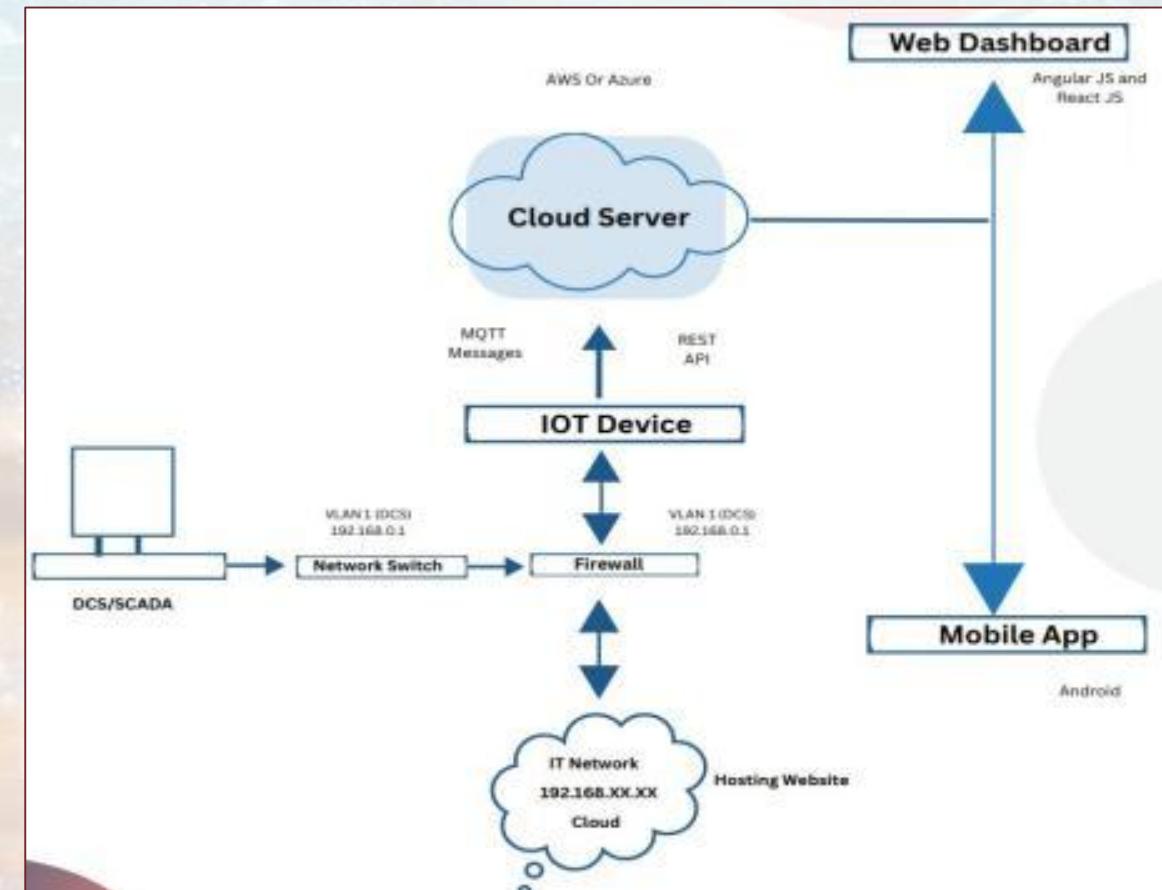
- PLC
- DCS
- SIS
- Monitoring & Control SCADA
- Human Machine Interface (HMI)
- Relay Based Control System
- RTU Integration (Energy Meter, Smart Relays)
- Web server, Historian
- TFMS

ELV System

- Fire Alarm
- CCTV
- Access Control
- Public Addressing System

IOT & DIGITIZATION

- IOT Gateway
- Remote Monitoring
- Cyber Security
- ERP Interface
- Reports and Dashboard
- Energy Monitoring System



PROCESS ENGINEERING & OTS



Domain

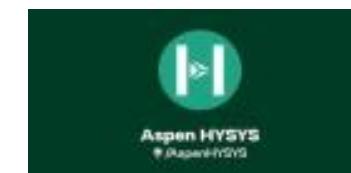
- Scenario Training
- Performance Evaluation
- Control System Simulation
- Plant Operation Training
- OTS Document Review(P & ID, PFD, Datasheets)
- Process Model Building
- Model Testing - Startup, Shutdown, Hazop study
- MAT (Model Acceptance Test)
- FAT (Factory Acceptance Test)
- SAT (Site Acceptance Test)
- PDET (Post Data Equalization Test)

Oil & Gas

Power

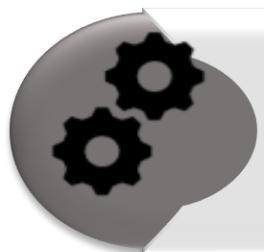
Petrochemical

Honeywell
UniSim Design Suite

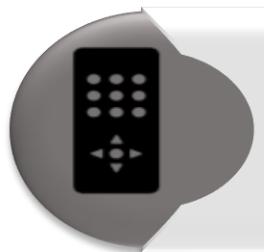


LIFE CYCLE SERVICES

Protect your energy assets with Life Cycle services—a wise investment for seamless power continuity



Instrument Installation, Calibration,
Commissioning



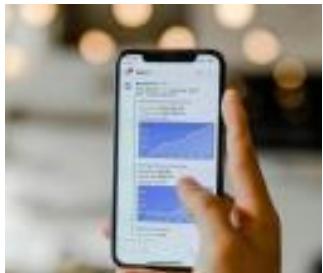
AMC Services



CMC- Comprehensive Maint
contract

- System Health check
- Network Check
- Remote support
- Emergency Support
- Spare supply
- Preventive Maintenance
- Emergency Support
- Online support

SOFTWARE SERVICES



Mobile Application



Desktop Application



Web Application



E-SCADA



IOT

Customized software development for internal process improvement, Productivity measurement & improvement etc

Products

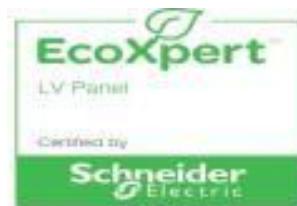
- **CSMS (Charging Station Management System)** - Web Application
- **Bharat Plug**(Mobile Application)
- **Real-Time Factory Monitoring Dashboard**
- **EMS -Energy Monitoring System**
- **Floor Space Management**



PANEL MANUFACTURING

Electrical Panel

- Motor Control Centers (MCC)
- Power Control Centers (PCC)
- Lighting Distribution Board
- VFD Panels
- APFC panels
- Lighting Distribution Board
- Bus Duct
- IEC61439 complied panels

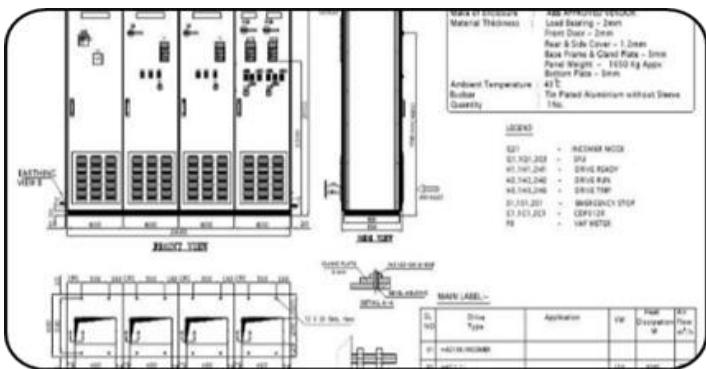


Control Panels

- Marshalling Cabinet
- System Cabinet
- Network Cabinet
- Server Cabinet
- Relay Control Panel
- Power Distribution Board
- Annunciator Panel



ENGINEERING SERVICES- AUTOMATION



Hardware Design

- IO Assignment
- Cabinet GA & Wiring Design – System, Marshalling, PDP (Power Distribution), Server, Network, IRP etc.
- Wiring Database
- Loop Drawings
- Heat Load Calculation
- Signal & System Cable Schedule
- Bill of Material

Software Engineering

- Input Reconciliation – Control Narratives, P&ID, C&E, Logic Diagram, IO Database
- Bulk Database Preparation
- Logic Development, Bulk Loops, Complex Loops, Sequence Logic, etc.
- HMI / Graphics Development
- Shapes & Dynamic Linking with Logic
- FAT & SAT Support



- EPKS C300 / C200, SM, SMSC
- TPS System – HPM, HG, LM
- Modular Systems – HC900, CE

PLC, CE UOC, CE RTU, ML200



- S7 1200 / 1500
- S7 300
- S7 400H
- WinCC



- DeltaV Database
- DeltaV Operate
- DeltaV Live



- ControlLogix Series
- Compact Logix Series
- SLC Series

Micro PLC



- ABB 800xA

ENGINEERING SERVICES

- INSTRUMENTATION & ELECTRICAL

Instrumentation

- Instrument selection as per specification
- IO List
- Instrument index preparation as per P&ID
- Datasheets preparation
- Hook-up Drawing Preparation
- Erection Material Take Off (MTO), etc.
- Cable Schedule
- JB Schedule
- Tray Layout Preparation
- Earthing
- Termination Drawings
- Loop Drawings

Electrical

- SLD Preparation, Plant Indoor as well as Outdoor Lighting, Floor Plan Layouts, Standard Operation Processes (SOPs) etc.
- Existing System Understanding And Documentation
- AutoCAD & Micro station Drafting
- Panel Designing – MCC, PCC, APFC, VFD etc.
- Testing(FAT) & Commissioning Support
- Skilled engineers for Site Survey, Monitoring / Supervision of Installation and Commissioning, Troubleshooting, Etc

TURNKEY PROJECTS

Oil & Gas

Project: Electrical & Automation Package for LPG pipeline from Jetty to LPG terminal

End Client:
IOCL Pipeline

Scope :
Design, Engineering,
Manufacturing, Supply, Testing
& Commissioning of SIL-3 ESD &
F&G PLC, Electrical and
Instrumentation system.

Water

Project: Kaleshwaram
Pkg20 Lift Irrigation.

End Client:
Govt. of Telangana, India

Scope :
Design, Engineering,
Manufacturing, Supply,
Testing & Commissioning of
Control System & allied
works along with field
Instruments.

Chemical

Project: Otbcha Phase III

End Client:
Eternis Fine Chemicals Limited

Scope :
Design, Engineering ,
Supply, Installation &
Commissioning of complete
DCS Control System &
Instrumentation.

Sugar

Project: 20TPH Boiler & Turbine
Electrical & Automation
Package.

End Client:
Samruddhi Sugars Ltd

Scope :
Design, Manufacturing, Supply,
Testing & Commissioning of
Electrical LT Panels &
Honeywell DCS Control
Automation Package for Boiler
& Turbine.

TURNKEY PROJECTS

LNG Dispensing

Project: LNG Dispensing Station
Wai, Nagpur, India

End Client:
IOCL Nashik

Scope :
Design, Engineering , Supply,
Installation & Commissioning of
complete Control System (PLC)
and Electrical VFD Panel.

WHRB

Project: Upgradation of Essar
Vizag Terminal Port (23KM
Conveyor Pkg)

End Client:
Confidence Power Group,
Bangladesh

Scope :
Design, Engineering ,
Supply, Installation &
Commissioning of complete
DCS System and MCC Panel
with Incomer 1600 ampere
including 69 Nos. outgoing
feeders.

Power

Project: 15 MW Power Plant
Project

End Client:
Bhagwati Sponge Pvt Ltd
Kolkata, India

Scope :
Design, Engineering,
Manufacturing, Supply
and Commissioning of
DCS Control System.
Waste Recovery Plant :
10 TPH 3 Boilers & 20
TPH 1 Boilers

Material Handling

Project: Upgradation of Essar
Vizag Terminal Port (23KM
Conveyor Pkg)

End Client:
Essar Vizag

Scope :
Design, Engineering , Supply,
Installation &Commissioning
of complete Material Handling
system. 12,000 IO's in 11.
Number of RIO spread over 30
Km's radius. Refurbishment of
6 Control
Rooms, Supply & installation
of Porta Cabins

ICSS-KEY PROJECTS

KOC GC-31

Customer – Kuwait Oil Company

Scope – Complete System Engineering for Honeywell DCS & Safety Manager

TCO

Customer – TCO

Scope – Complete System Engineering for Honeywell DCS & Safety Manager

HPCL TAS 11 Location

Customer – HPCL

Scope – Site Commissioning for Honeywell safety Manager and ML200 PLC

KOC GC-32

Customer – Kuwait Oil Company

Scope – Complete System Engineering for Honeywell DCS

KNPC Alzour / KOC LFAR

Customer – KNPC / KOC

Scope – Engineering Support & Site Commissioning Support

ESSAR Vadinar

Customer – Essar Jamnagar

Scope – Site Commissioning for T & D Honeywell RTU & SCADA

IOCL Bongaigaon

Customer – IOCL

Scope – Complete System Engineering for Honeywell DCS, Safety Manager & Site Commissioning

SONATRACH

Customer – SONATRACH

Scope – Complete system Engineering foR Honeywell DCS & Safety Manager

NTPC Solapur / Nabinagar

Customer – NTPC

Scope – Complete System Engineering for Honeywell ML200 for stacker Reclaimer & Wagon Tripler

Jezan – Saudi Aramco

Customer – Saudi Aramco

Scope – FAT & Site Commissioning for Honeywell DCS & Safety Manager

IOCL Paradip

Customer – IOCL

Scope – Site Commissioning for Honeywell DCS & safety Manager

TAPCO

Customer – TAPCO

Scope – Engineering & Commissioning Support - Shutdown

TURNKEY PROJECTS

OIL & GAS

Project: Compressor Package & Associated Systems.

End Client:
IOCL Ramnathan

Scope :
Design, Engineering,
Manufacturing, Supply, Testing
& Commissioning of SIL-3 PLC
Control System & allied works
along with field Instruments.

OIL & GAS

Project: Construction of Cruid Oil, Storage & Fire Fighting Facility.

End Client:
ONGC Pundi / KVK

Scope :
Design, Engineering,
Manufacturing, Supply,
Testing & Commissioning of
SIL-3 PLC Control System &
allied works along with field
Instruments. And
Integration of Tank Form
Management System with
PLC.

TFMS

Project: 3 x 500 MT Capacity of
Moulded LPG Storage Vessel at
Jammu

End Client:
HPCL

Scope :
Design, Engineering ,
Supply, Installation &
Commissioning of
complete TFMS System.

Honeywell Enraf
Solution.

LNG Dispensing

Project: LNG Dispensing Station
Wai, Nagpur, India

End Client:
IOCL Nashik

Scope :
Design, Engineering ,
Supply, Installation &
Commissioning of
complete Control System
(PLC) and Electrical VFD
Panel.

TURNKEY PROJECTS

Water

Project: Singatalaru Package – 1
Water Treatment &
Distribution)

End Client:
Karnataka Neeravari Nigam Ltd

Scope :
Design, Engineering,
Manufacturing, Supply, Erection
and Commissioning of PLC
Control System,
Instrumentation & Electrical LT
Package.

Water

Project: Kaleshwaram Pkg20 Lift
Irrigation

End Client:
AP – GENCO (Local
Government Body)

Scope :
Design, Engineering,
Manufacturing, Supply,
Testing, Erection &
Commissioning of Control
System & allied works along
with field Instruments.

Water

Project: 150MLD Desalination
Plant

End Client:
MRPL

Scope :
Design, Engineering ,
Supply, Installation &
Commissioning of
complete DCS Control
System Package.

Power

Project: 2x100 MW Nuclear
Power Project – DM & PWTS,
Chiller System

End Client:
Nuclear Power Corporation of
India Ltd.

Scope :
Design, Engineering,
Manufacturing, Supply,
Erection and
Commissioning of PLC
Control System,
Instrumentation Package

TURNKEY PROJECTS

Pharma

Project: Expansion Ph1

End Client:
Hospera Healthcare Pvt Ltd

Scope :
Design, Engineering , Supply,
Installation & Commissioning
of complete DCS Control
System.

Pharma

Project: SRP – 03 Darabssi
Punjab – SRU Unit

End Client:
Nectar Lifesciences

Scope :
Design, Engineering ,
Supply, Installation &
Commissioning of complete
DCS Control System &
Instrumentation Package
for SRU Unit.

Chemical

Project: Otbcha Phase III

End Client:
Eternis Fine Chemicals Limited

Scope :
Design, Engineering ,
Supply, Installation,
Erection & Commissioning
of complete DCS Control
System & Instrumentation
Package.

Chemical

Project: 80KLPD Striper, 80KLPD
MEE, 80FD

End Client:
ZCL Chemical Ltd

Scope :
Design, Engineering ,
Supply, Installation,
Erection &
Commissioning of
complete Electrical &
Instrumentation Package.

TURNKEY PROJECTS

Sugar

Project: Turnkey Sugar Plant & Distillery

End Client:
Sopanraon Balakrishna Dhasal
SSK

Scope :
Design, Manufacturing,
Supply, Testing &
Commissioning of Honeywell,
DCS, Control, Automation.
Package, Instrumentation *
Electrical LT Panels for 55TPH
Boiler, Mill, PAN, Turbine &
60KLPD Distillery.

WHRB

Project: Secondary Power Generation System

End Client:
Confidence Power Group,
Bangladesh

Scope :
Design, Engineering ,
Supply, Installation &
Commissioning of complete
DCS System and MCC Panel
with Incomer 1600 ampere
including 69 Nos. outgoing
feeders.

Power

Project: Tuticorin 525 MW Thermal Power Plant BOP Package

End Client:
SEPC Power Pvt Ltd. Tuticorin

Scope :
Design, Engineering,
Manufacturing, Supply,
Erection and
Commissioning of DCS
Control System &
Instrumentation Package

CSR ACTIVITIES



CUSTOMERS



أرامكو السعودية
saudi aramco



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