

# RAM **E&I** SYSTEMS PVT LTD

(Since 1996)

# E & I

## ELECTRICAL TURNKEY CONTRACTS

- Engineering, Procurement, Installation & Commissioning (**EPIC**)

## ELECTRICAL ENGINEERING SERVICES

- System Design, Detailed Engineering, Procurement Assistance, Site Supervision, Commissioning Assistance

## ELECTRICAL PANELS:

AC & DC DISTRIBUTION SOLUTIONS,  
LT & HT CONTROL & RELAY PANELS  
CUSTOM BUILT PANELS

## C & I TURNKEY CONTRACTS

- Engineering, Procurement, Installation & Commissioning (**EPIC**)

## C & I ENGINEERING SERVICES

- System Design, Detailed Engineering, Procurement Assistance, Site Supervision, Commissioning Assistance

## C & I PANELS:

INSTRUMENTATION, CONTROL &  
AUTOMATION SOLUTIONS, SCADA  
SYSTEMS, DCS, PLC PANELS

Your Preferred  
**Industrial Automation &  
Electrical Solutions Provider**

- Associate of **RESURGENT GROUP**

## TURNKEY CONTRACTS : ELECTRICAL

Engineering  
Procurement  
Installation &  
Commissioning

Electrical Projects  
for various  
Power &  
Process Industries,  
Commercial Complex, Multistoried Buildings,  
Townships,  
Substation,  
Switch Yards etc.

- \* EPIC as single point responsibility, RAM E&I has successful Track Record of executing the projects undertaken
- \* Our dedicated TEAM work towards achieving targets well within time schedules
- \* There is pre-planning at every stage of project to meet customer expectations



## TURNKEY CONTRACTS : INSTRUMENTATION & AUTOMATION

Engineering  
Procurement  
Installation &  
Commissioning

EPIC:

Control & Instrumentation,  
Automation Projects  
(DCS, PLC, SCADA Systems)

for various

Power &  
Process Industries,  
Boilers,  
Substation SCADA, Building Automation etc.

- \* Having TEAM of Engineers & Consultants with varied experience and exposure to various projects, RAM E&I executed the projects successfully
- \* We use Sophisticated Test & Calibration Instruments at every stage and work towards reliability & provide peace of mind to customers to concentrate on their core business



## ELECTRICAL CONTROL PANELS

- HT Control and Relay Panels
- LT PCC, LCC, MCC
- ESP MCC, Heater Control Panels
- Soft Starters Panels
- DC/ AC Variable Frequency Drive Panels
- ACDB, DCDB, LDBs
- Soot Blower MCC
- APFC Panels
- AMF Panels
- Field Junction Boxes
- Cable Trays and
- Other panels on request

\* We design and develop various control Panels as per Industry Standards and various process requirements

\* Our panel fabrication & assembling facilities at Chennai has dedicated team to make quality panels

Our Panels are **CPRI Certified**



## CONTROL & INSTRUMENTATION PANELS



- Control Desk, Mimic Panels, Push Button Stations
- Programmable Logic Controller (PLC) based Systems
- Distributed Digital Control System (DCS) Panels
- Supervisory Control And Data Acquisition (SCADA) System Panels
- Pneumatic, Electronic Instrument Control Panels

\* We provide Calibration Services for various Field Instruments

\* We also procure & Supply various Field Instruments including Control Valves and Analyzers

## ENGINEERING SERVICES : ELECTRICAL

- System Design
- Detailed Engineering
- Procurement Assistance

Our Services include:

### Project Engineering

- Basic and Conceptual Engineering
- Engineering Specifications (Tfrs, Motors, VFDs, DG Sets, LT & HT Switch Gear etc.)
- Bid Evaluation / Recommendations
- Post Contract Engineering / Review and Approval of Vendor Documents
- Detailed Design and Engineering Drawings

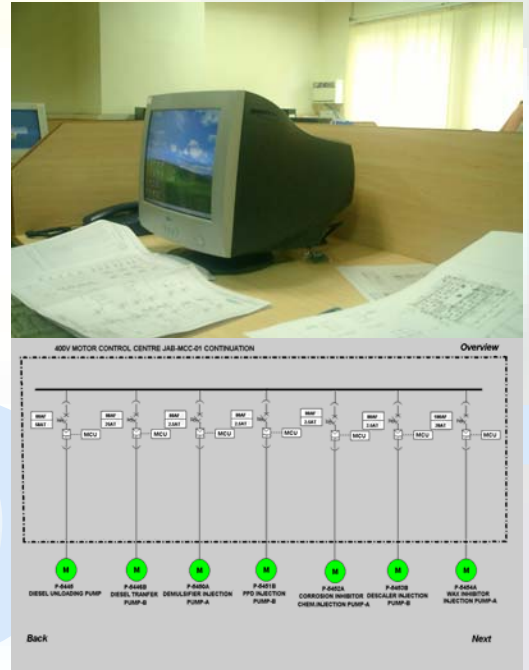
### Project Management

- Project Scheduling and Control
- Progress Monitoring and Co-ordination
- Inspection and Expediting

### Site Services

- Supervision of Construction and Erection
- Testing and Commissioning Assistance
- Quality Control Implementation
- Measurement and Certification

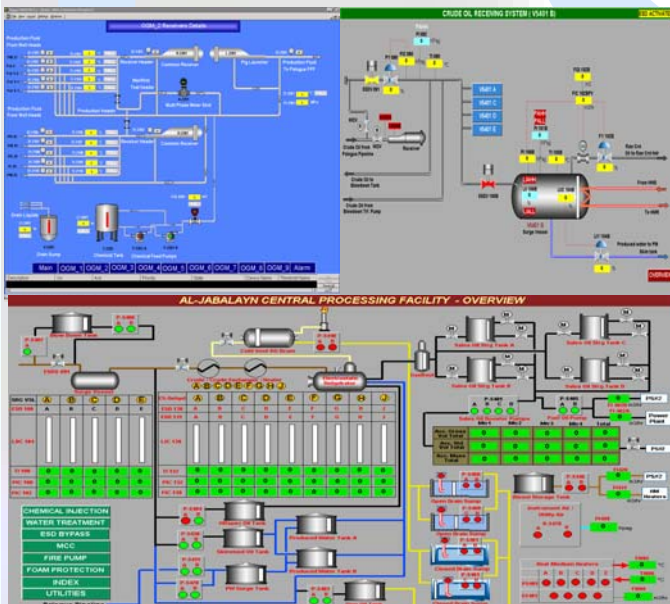
- Site Supervision
- Commissioning Assistance
- Start-up & Trial Runs



## ENGINEERING SERVICES: CONTROL & INSTRUMENTATION

- > System Design
- > Detailed Engineering

- > Procurement Assistance
- > Site Supervision
- > Commissioning Assistance



Our Services include:

- Control System Architecture and overall control philosophy
- Protection & Interlock Schemes
- Basic and detailed engineering - master instruments lists, DCS I/O list etc.
- Technical Specifications for DCS, PLC, Field Instruments, Control Valves, Analyzers etc.
- Control room layout & control panel layouts
- Field instrument location plans, cable routing, cable schedules, installation drawings, loop - wiring drawings etc.

## Our Business Segment:

- ❖ Power Generation & Transmission
- ❖ Chemicals & Pharmaceuticals
- ❖ Pulp & Paper
- ❖ Glass & Fiber
- ❖ Oil & Gas
- ❖ Cement
- ❖ Sugar
- ❖ Textiles
- ❖ Metals & Minerals
- ❖ Food & Beverages
- ❖ Water & Sewerage Treatment Plants
- ❖ Multistoried Buildings & Townships etc.

\* We take up Electrical, Process Control & Instrumentation and Automation EPIC Projects on Turnkey Basis

\* We design & supply custom specific Panels to meet industry needs

\* We provide Complete Engineering Services for Electrical, C & I and Automation requirements

## Projects

**As RAM E & I has in-house design & development team, construction team, in-house Panel building facility under single roof, we have distinct advantage in executing the projects inline with schedules and exceeding customer expectations**

Partial List of our projects:

### EPIC Projects:

**EPIC of Electrical & Instrumentation Systems: 127tph AFBC new Boiler at M/s Jindal Steel Works Ltd., Salem, TN**

**EPIC of Electrical & Instrumentation Systems: 2\*30 MW WHR Boiler at M/s Goa Energy Pvt. Ltd., Goa**

**EPIC of DCS System for BFG and COG fired Boiler at M/s Nilanchal Ispat Nigam Ltd., (M/s Konark Metcoke Ltd.), Daburi, Orissa**

**EPIC of DCS System for Chemical Recovery Boiler at M/s JK Paper Ltd., Unit: Central Pulp Mill, Sonagadh, Gujarat**

PLC System for Autoclave at M/s CPDC, Hyderabad

PLC Systems for Water Pumping Station at M/s Chennai Metro Water, Kulathur

PLC System for proving Ground ( Brake Testing) at M/s Sundaram Clayton (TVS Group), Chennai

**SCADA System for Oil Field Surface, Production & Processing Facilities at M/s Petrodar Operating Company, Sudan (Overseas)**

**Projects .....**

**EPC Support Services (ELECTRICAL & INSTRUMENTATION):**

1300 TDS Chemical Recovery Boiler  
at M/s Tamilnadu Newsprints Limited, Pugalur

400 TDS Chemical Recovery Boiler  
at M/s Abhishek Industries Limited, Barnala, Punjab

Chemical Recovery Boiler, Evaporator and Reausticizers  
at M/s Yunus Pulp & Paper Mills, Yaslik, Turkmenistan  
(Overseas)

1300 TDS Chemical Recovery Boiler, 275 TPH Evaporator, 3300M<sup>3</sup>/Day Reausticizer &  
160 T/day Lime Mud Reburning System  
at M/s Andhra Pradesh Paper Mills, Rajahmundry, A.P.

AFBC Boilers at M/s ITC-BPD, Bhadrachalam, A.P.

**Erection, Test & Commissioning Services (ELECTRICAL & INSTRUMENTATION): :**

Chemical Recovery Boiler and Evaporator  
at M/s HPCL, Cachar, Assam

**Polyester Yarn Project**  
at M/s Reliance Industries, Hazira

**Melut Basin Oil Development Project (UPSTREAM)**  
at M/s Petrodar Operating Company, Sudan (Overseas)

**Detailed Engineering Services and customization:**

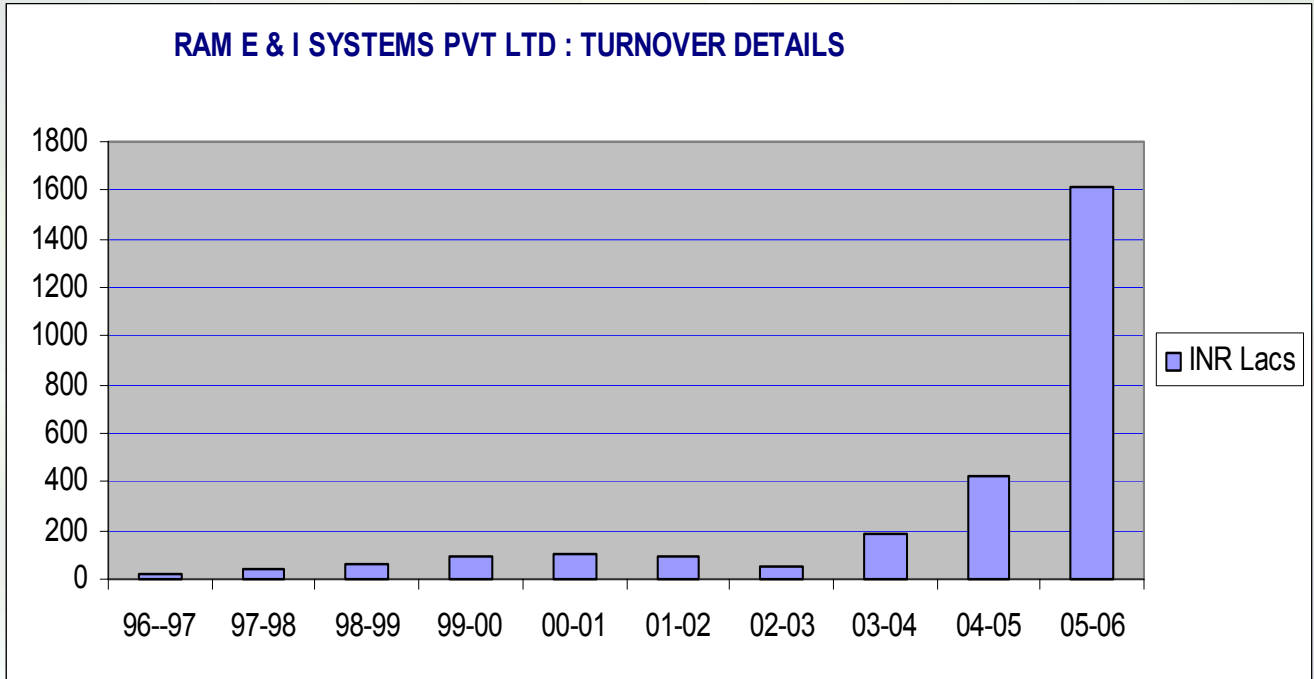
DCS System ( Tata Honey well) for Chemical Recovery Boiler, Evaporator and  
Reausticizer  
at M/s Yunus Pulp & Paper Mills, Yaslik , Turmenistan  
**(Overseas)**

DCS System (ABB AC800F) for Oil Field Production Facility & Central Processing Facility  
at M/s Melut Basin Oil Development Plant, Palogue, Al-Jabalan, Sudan  
**(Overseas)**

DCS, PLC & Instrumentation (Emerson)  
for Nitrogen Plant at M/s IOCL, Panipat

PC based SCADA System (ASCON MLPC + CITECT SCADA)  
for Chemical Recovery Boiler at M/s Sirpur Paper Mills, A.P

**Growth Chart of RAM E & I SYSTEMS**



**Group Companies**

RESURGENT GROUP has been formed by like minded technocrats who have pooled in their resources and decades of expertise in Power, Paper & Process Industries

The synergy of these business entities over Engineering, Project Management, Manufacturing, Construction & other Services.

The Group has a distinctive edge in executing projects in Power, Paper and Process Industries

- |                                 |                             |
|---------------------------------|-----------------------------|
| Enmas Andritz                   | : Pulp & Paper              |
| Enmas Engineering               | : Engineering & Consultancy |
| Enmas GB Power Systems          | : Power Plant Systems       |
| Resurgent Software Technologies | : Software Services         |
| GB Engineering Enterprises      | : Boilers, Heat Exchangers  |
| Enmas Engenious Projects        | : Plant Construction        |

## **RAM E & I SYSTEMS PVT. LTD.**

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