



Real Time Engineering
Embedded with Technology

Real Time Engineering Pvt. Ltd.

Total Process Solution for Automation, Electrical & Instrumentation



Over 2 decades of customer commitment...



Real Time Engineering

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Embedded with Technology



Serving Customers in the
field of ...

Electrical, Instrumentation
and Automation Engineering
since 1994.



Real Time Engineering

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Total Process Solution for...

- ☐ ***Automation***
- ☐ ***Electrical***
- ☐ ***Instrumentation***



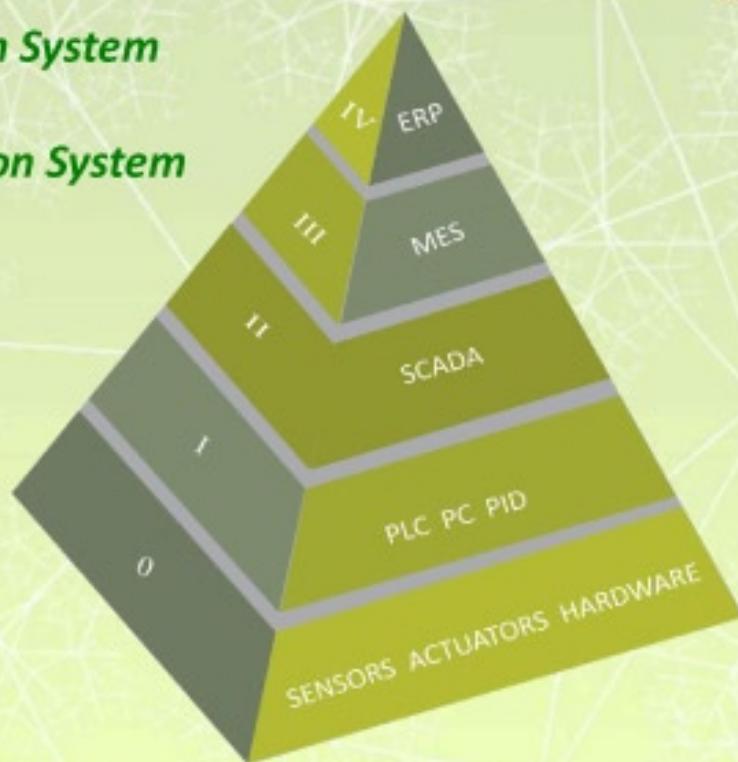


Real Time Engineering

- *Level-I Automation System & Level-II Optimization System*
- *Data Base Management*
- *Production Scheduling and Reporting & Production Planning and Tracking*
- *Customized Web Based MIS System & Predictive Maintenance through Email and SMS*
- *Instrumentation and SCADA System*
- *3rd Party Interfacing and Communication*
- *VFD & MCC Panels & Instrument Panels and Control Desk*
- *Energy Monitoring and Reporting*



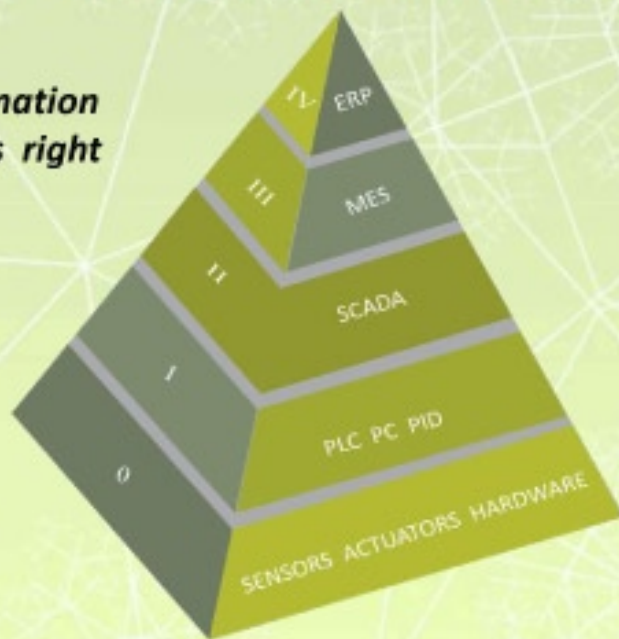
➤ **Level-I Automation System
&
Level-II Optimization System**





➤ Level-I Automation System & Level-II Optimization System

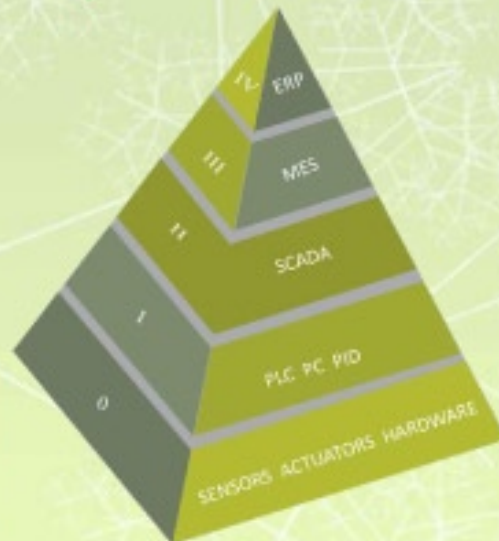
*We respect the Philosophy of Automation
and integrate the Customer's Needs right
from Level Zero*





➤ Level-I Automation System & Level-II Optimization System

We respect the Level Zero of Customer Application...understanding of man-machine interface is highest there.

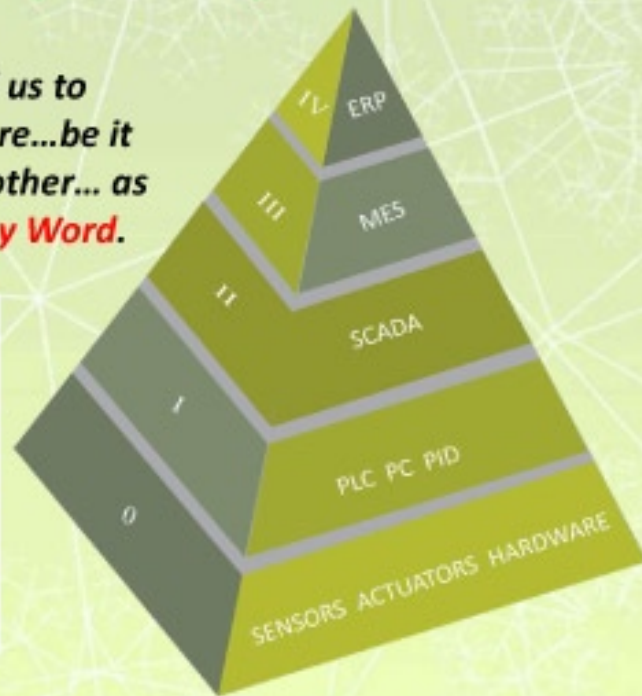




Real Time Engineering

➤ Level-I Automation System & Level-II Optimization System

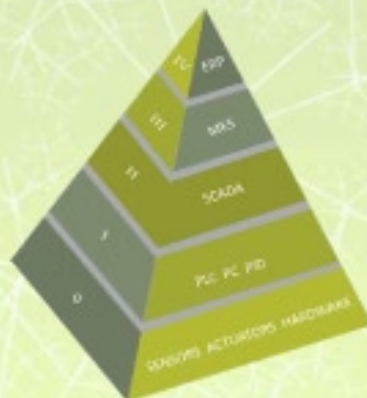
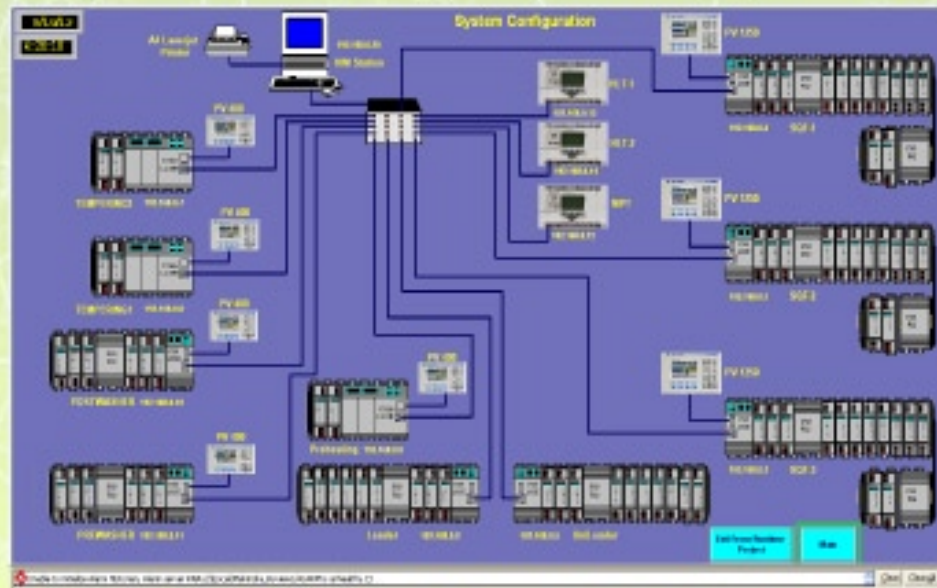
*Our respect to Level Zero has enabled us to accept any or all Automation Hardware...be it Rockwell, Siemens, Schneider or any other... as we know that **Customization is the Key Word**.*



Real Time Engineering

➤ Level-I Automation System & Level-II Optimization System

The system architecture offered is extremely flexible and user friendly.



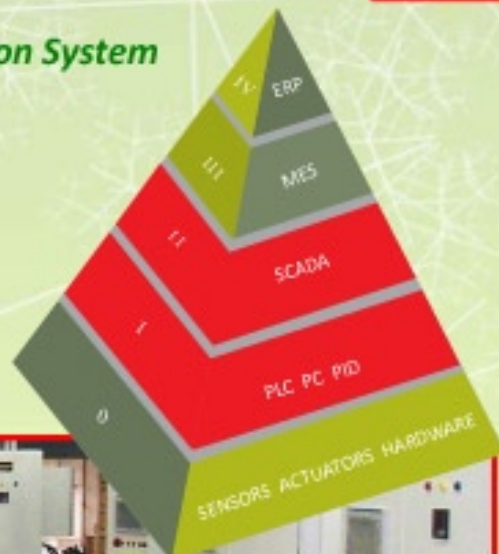
Our Expertise

Real Time Engineering



➤ Level-I Automation System & Level-II Optimization System

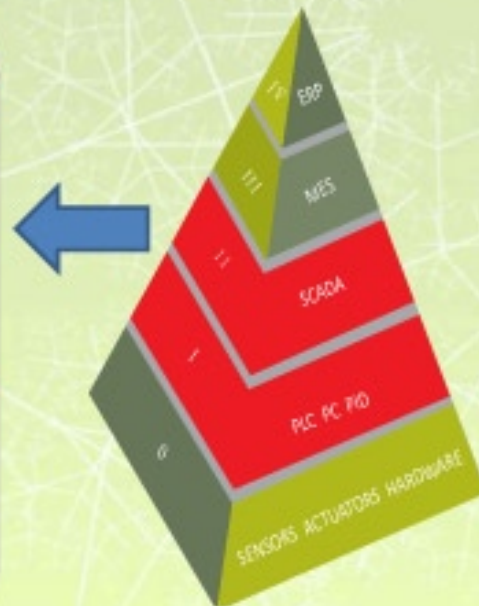
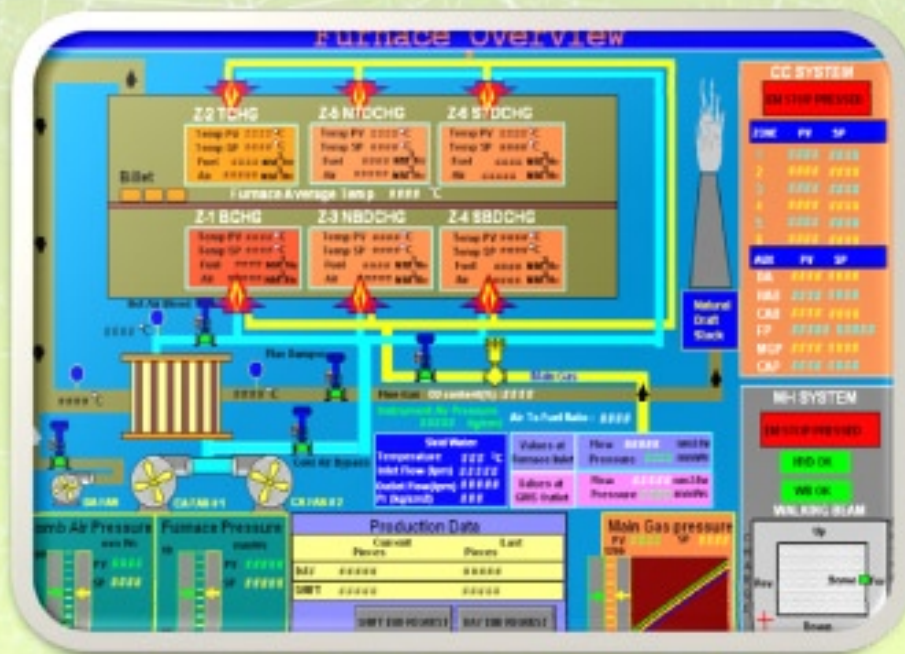
The flexibility in using Customized hardware has enabled us to meet the Automation Challenges in the past and we shall carry it forward in the future.



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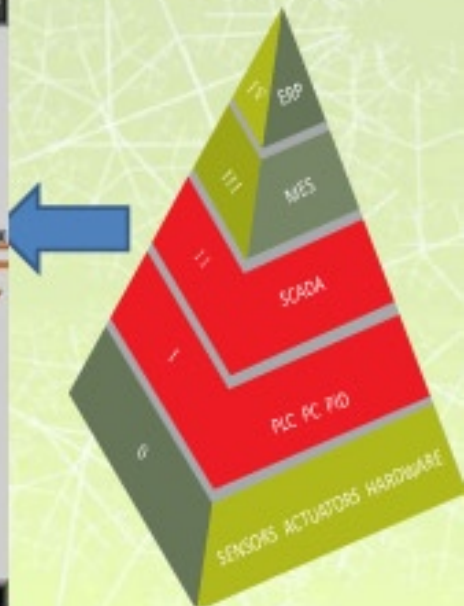
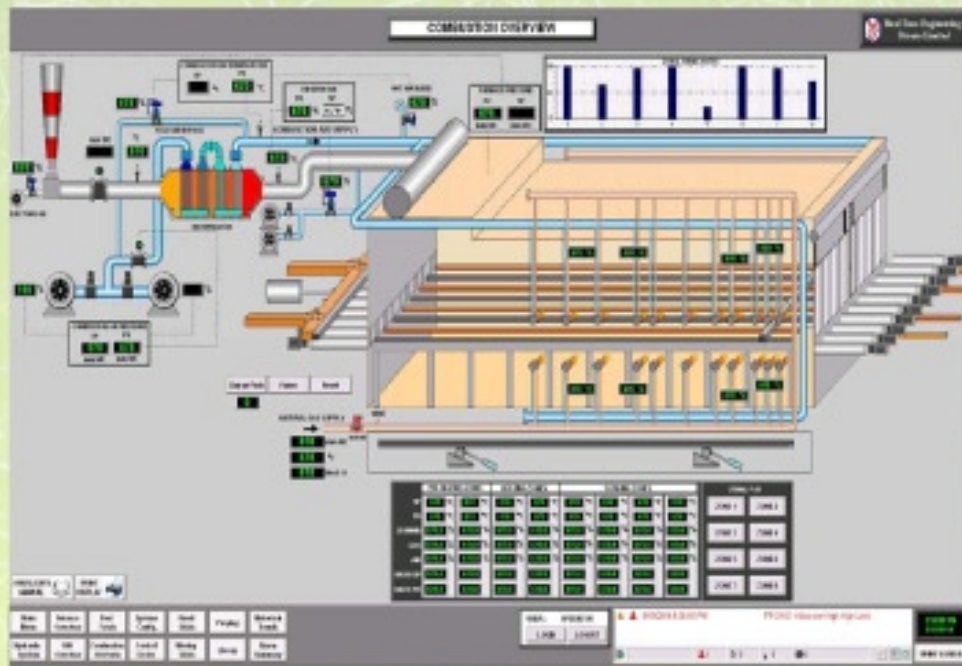


➤ Level-I Automation System & Level-II Optimization System





➤ Level-I Automation System & Level-II Optimization System



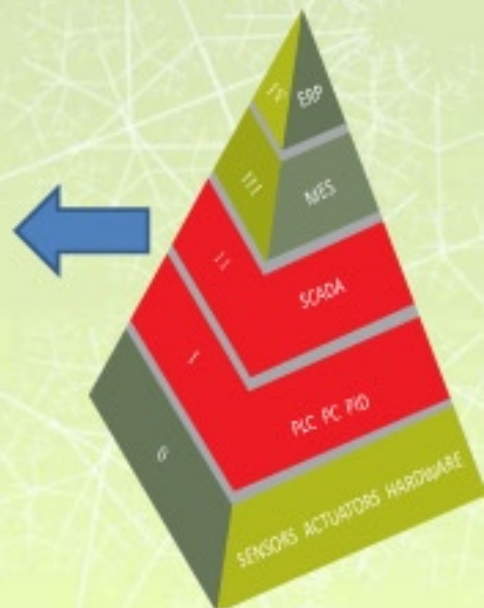
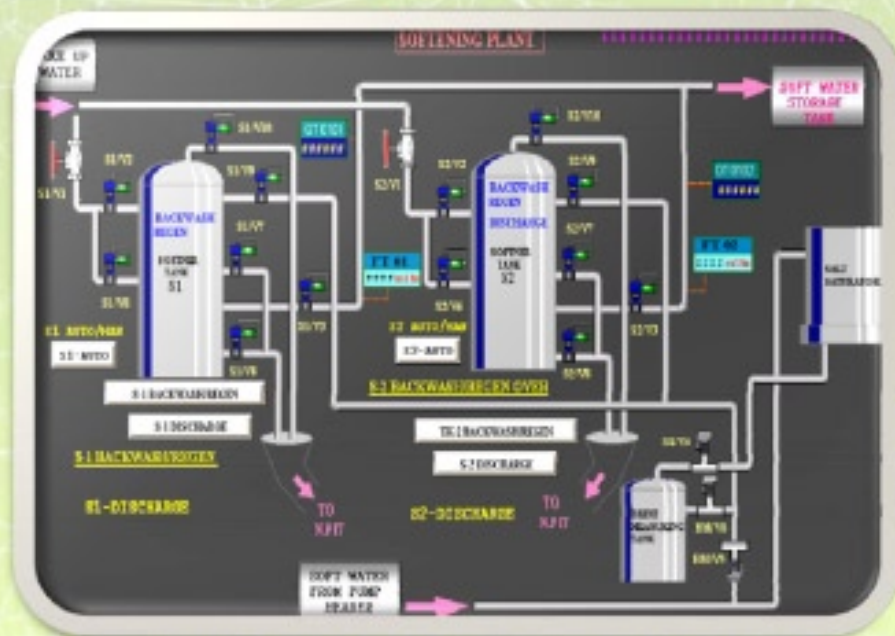


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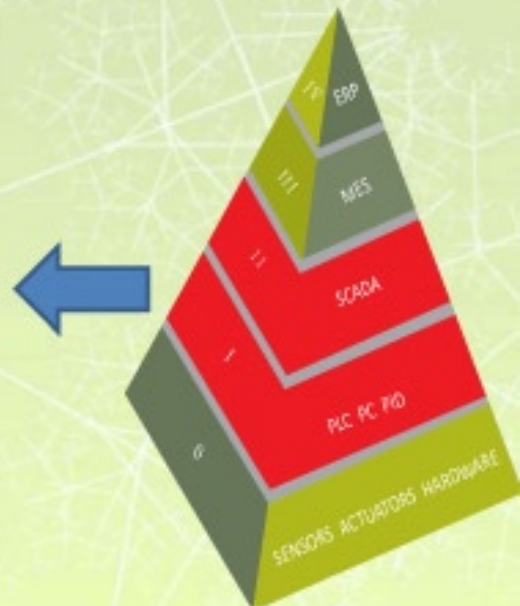
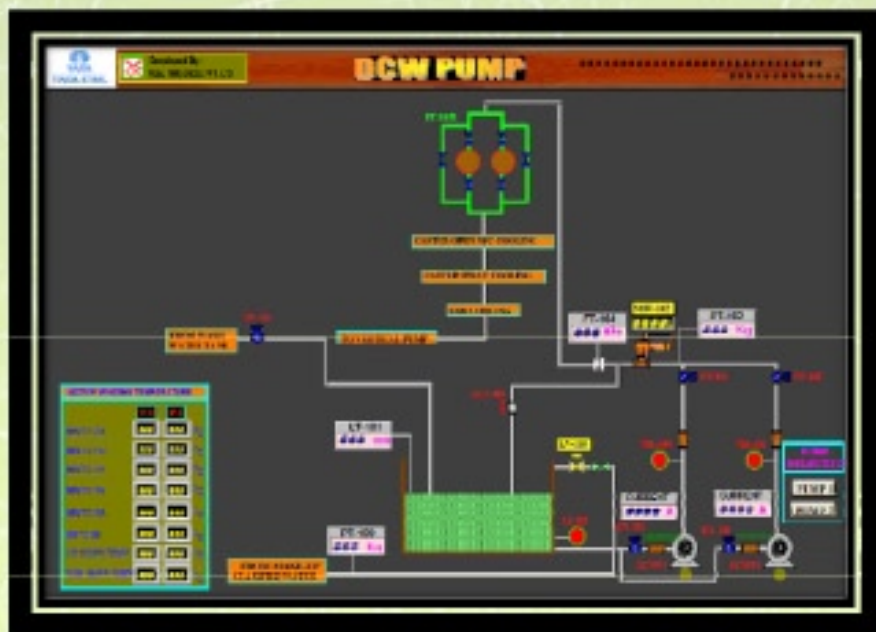


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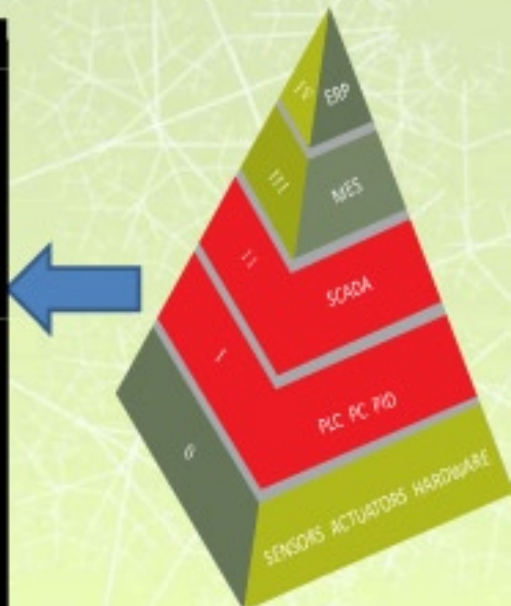
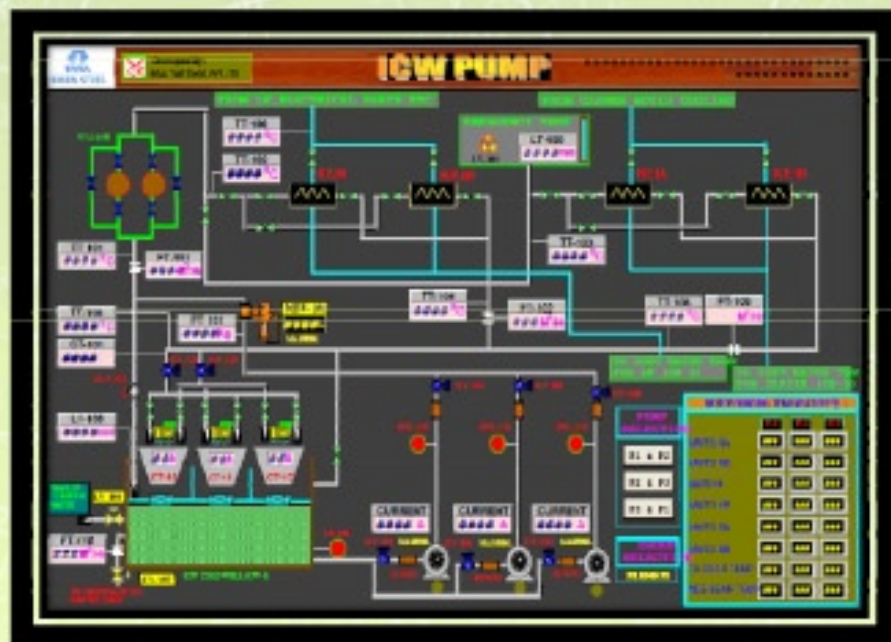


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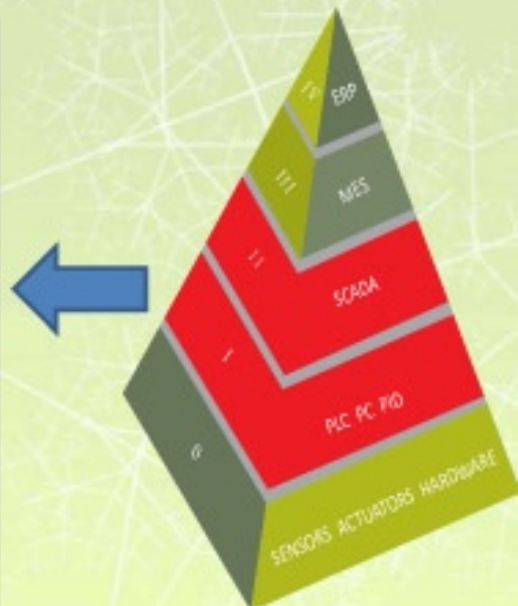
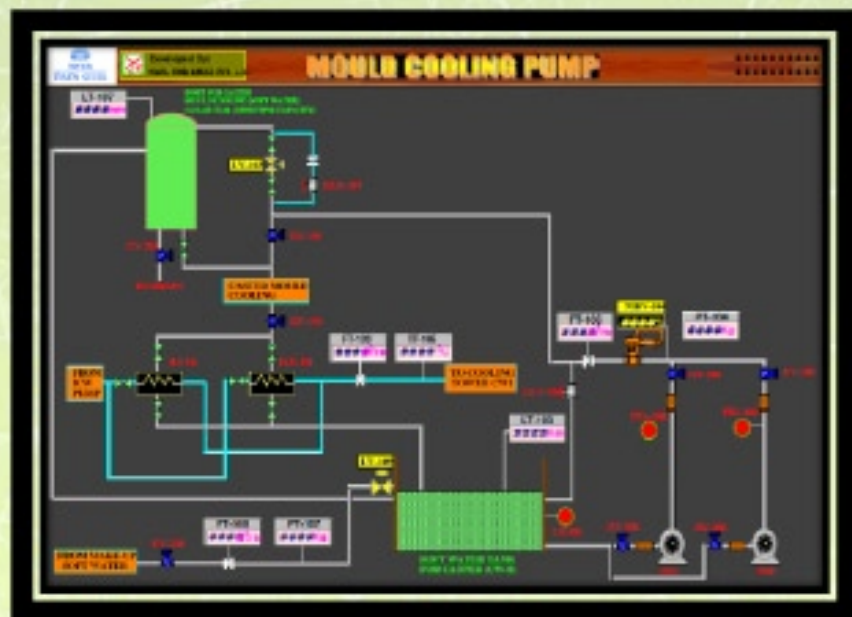


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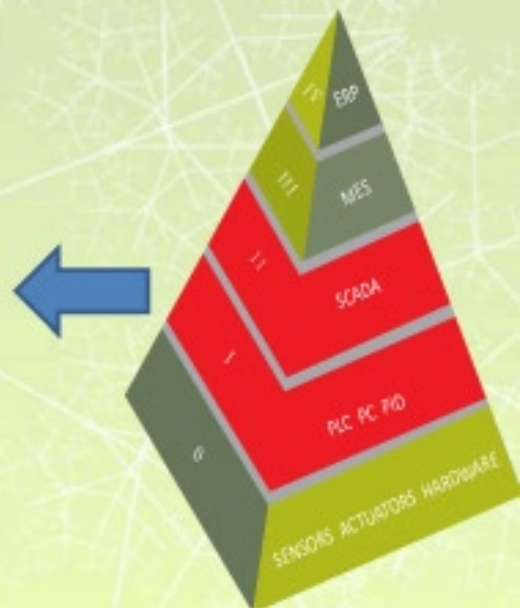
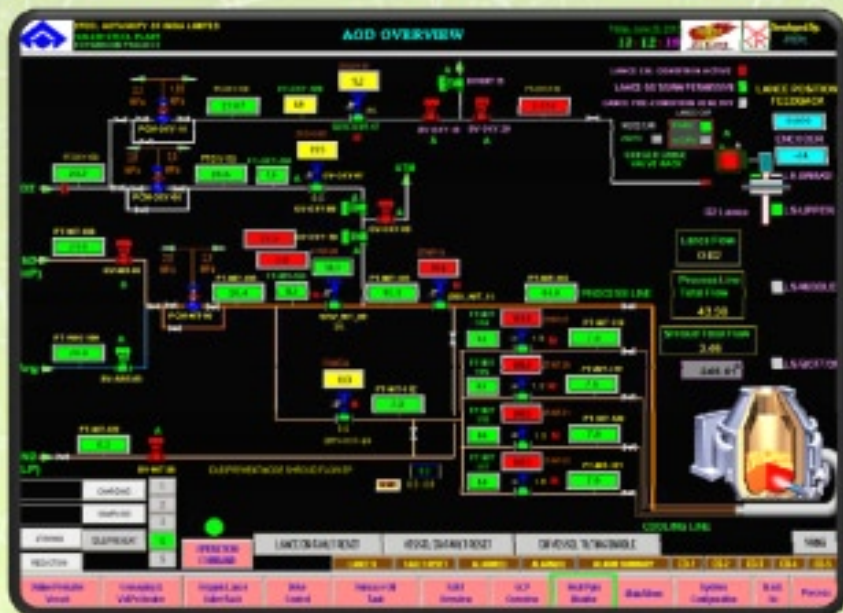


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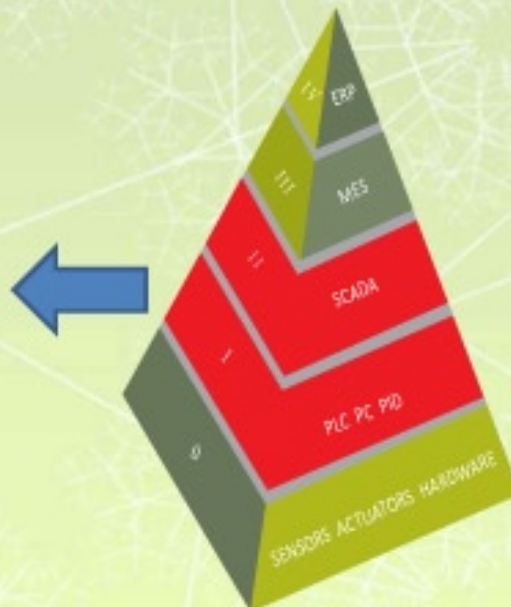


➤ Level-I Automation System & Level-II Optimization System





➤ Level-I Automation System & Level-II Optimization System



Our Expertise



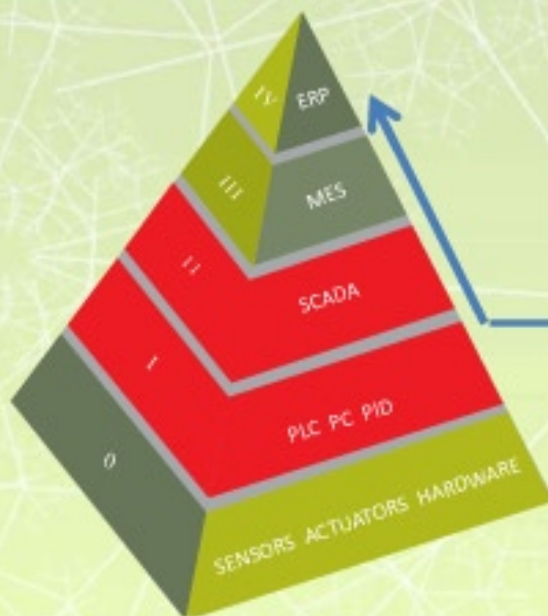
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➤ Data Base Management

Real Time Engineering

The Expertise in Machine Level Software as well in Higher Platform software has enabled us to deliver Data Base Management Solutions that becomes simpler for the MES, MIS and ERP layer to become...

Simpler & **Effective**



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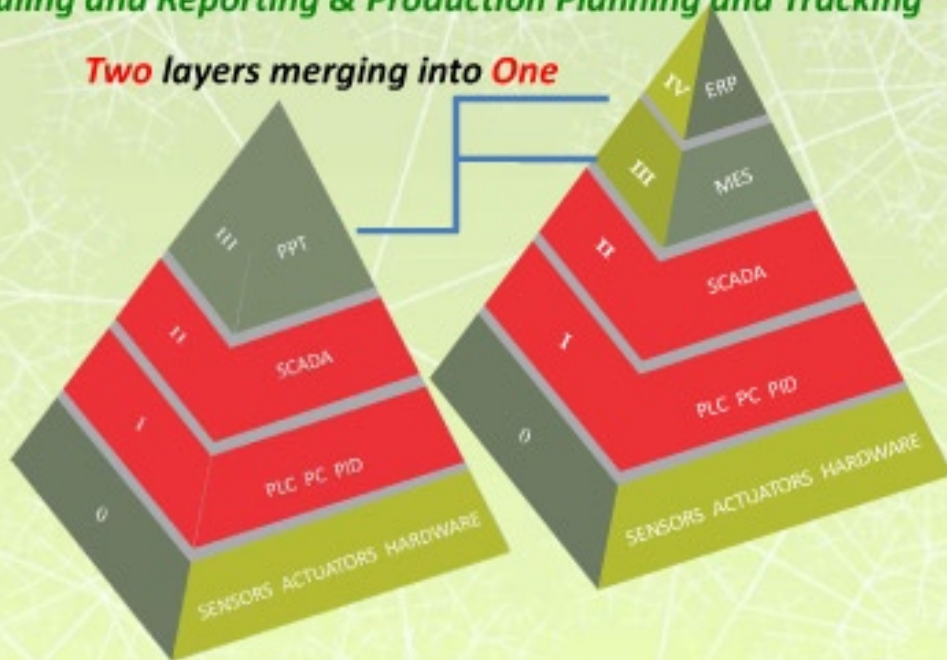
➤ *Production Scheduling and Reporting & Production Planning and Tracking (PPT)*





➤ Production Scheduling and Reporting & Production Planning and Tracking

Two layers merging into One



For Medium size organizations , the ERP layers seldom exist...and the Automation pyramid is reduced to Four layers.

We offer the entire Turn-Key for Org-Automation in such cases.



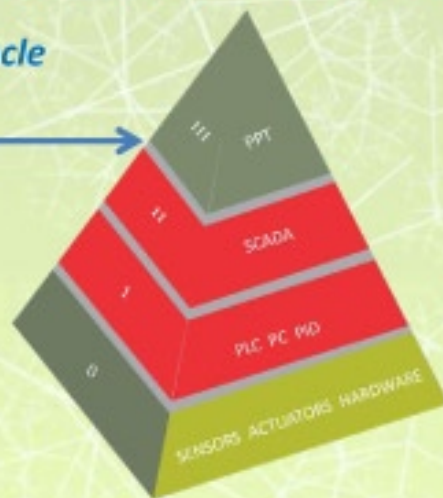
➤ Production Scheduling and Reporting & Production Planning and Tracking

Production Planning and Tracking layer

Integration Expertise with Dot Net...SQL Server...Oracle

*Competence of integrating hardware
and application software of PLC &
SCADA*

*Knowledge of Zero Level Sensors + Actuators+
Motors+ Other Hardware*



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➤ **Production Scheduling and Reporting & Production Planning and Tracking**

HISTORICAL TREND DISPLAY for SQF1

Historical Trend Display for SQF1

10/20/01 10/20/02

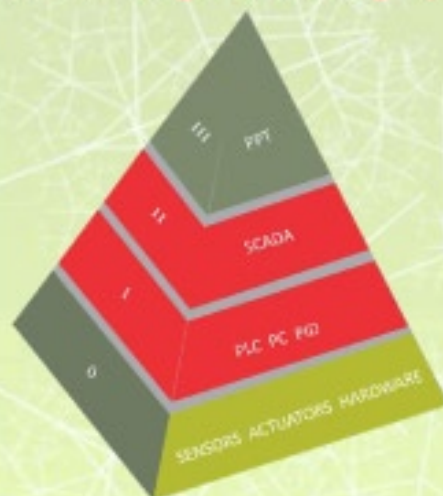
1200.00
1100.00
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00

10/20/01 10/20/02

Caption	Min	Max
SQF1	0.00	1200.00
SQF2	0.00	1200.00
SQF3	0.00	1200.00
SQF4	0.00	1200.00
SQF5	0.00	1200.00
SQF6	0.00	1200.00

☐ OPV And CPSP ☐ OP Temp PV And SP

☐ Heat Temp PV And SP ☐ All



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➤ Production Scheduling and Reporting & Production Planning and Tracking

Production Planning and Tracking layer

A Typical Recipe Table

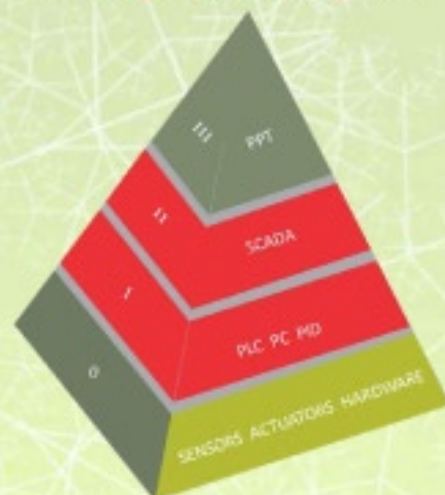
Job Card: 7541 HydroblastV

JOB ID: 4095

DATA IN SUPERVISORY PLC

RECIPE:

PREHEAT		SOFT		WASHER		TEMPERING	
Available	Pending	Available	Pending	Available	Pending	Available	Pending
Temperature: °C	Temp. Time: CP	Timer: Speed: Min: Sec:	Quench Process SP	Rest Time RT Wash:	Working Time:	Temperature: °C	Time: min
Time:	Soaking 1:	Quenching 1:	Quenching 2:	Rest Time AT Wash:	Spraying Time:		
	Soaking 2:	Quenching 3:	Oil Dropping:	Drying Time:	Blowing Time:		
	Carbonizing 1:			Shining Time:	Boil2 Temperature:		
	Carbonizing 2:				Boil2 Temperature:		
	Hardening:						
	Sequint Selection: SP1 SP2	Quenching Medium Selection: Air Oil					
Pending	Pending			Pending	Pending	Pending	Pending
							Route



A Typical MIS Format

- [illegible]



➤ *Instrumentation and SCADA System*



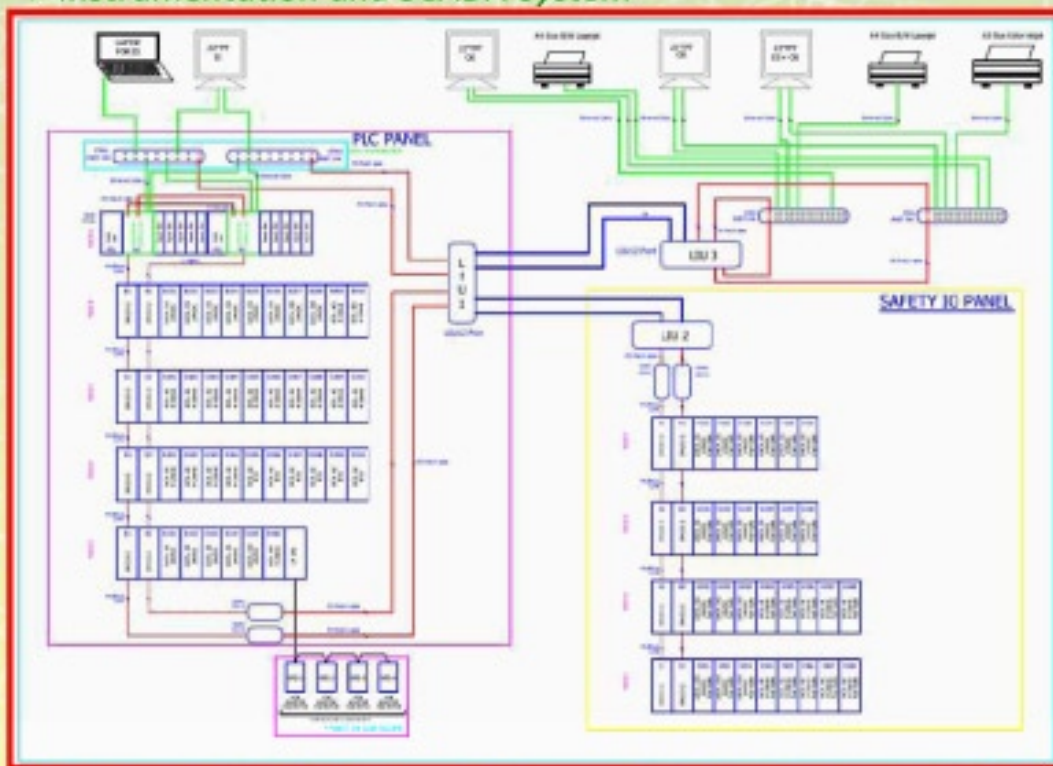
In the field of Automation, Customers often feel uncomfortable owing to problem of handshaking between Electrical & Instrumentation.

Generally , the integration of PLC & SCADA is the most sensitive element of Automation.

Real Time Engineering- *offers comprehensive solution for both PLC & SCADA*



➤ Instrumentation and SCADA System



**Customer like
TATA STEEL
showed their
faith on us when
SCADA & PLC
were to be
integrated in the
most prestigious
3 MT per annum
Expansion
project.**

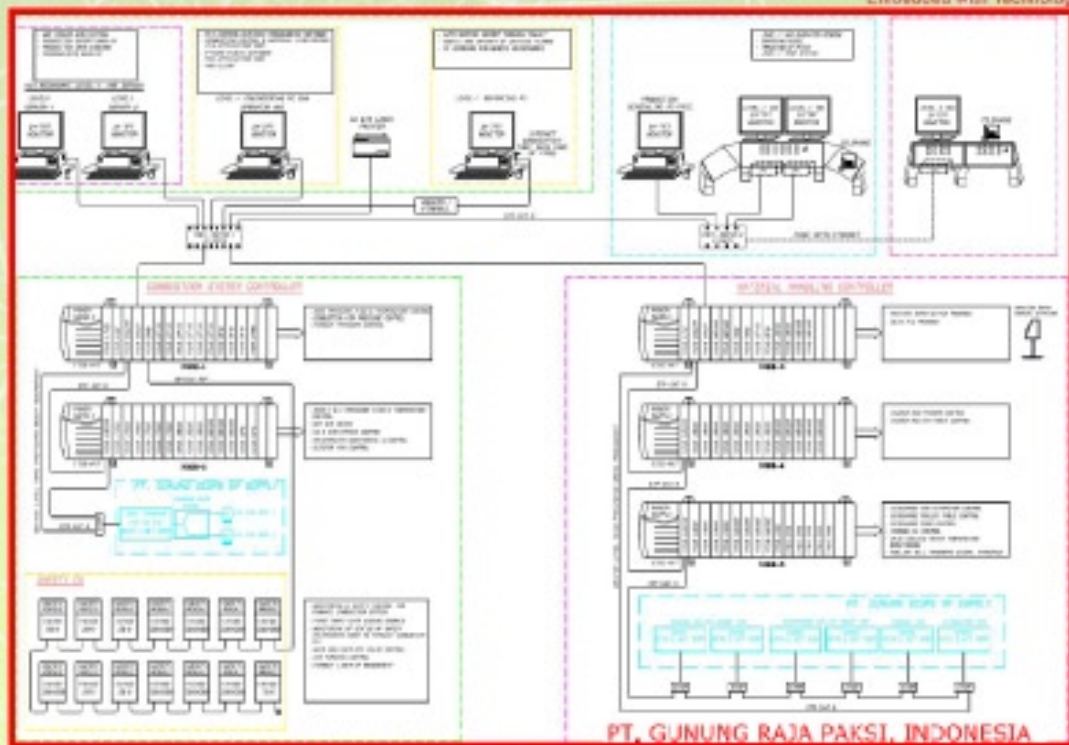
Our Expertise



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➤ Instrumentation and SCADA System Real Time Engineering

International customers have started appreciating Real Time Engineering's comprehensive approach and for the prestigious 100 TPH re-heating furnace automation PT. GUNUNG RAJA PAKSI of Indonesia preferred similar solution.



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Real Time Engineering

➤ 3rd Party Interfacing and Communication

As Real Time Engineering is a multiplatform operator, RTE addresses the interfacing needs of the customers. In medium size orgs, retrofit in every aspect of engineering is a challenge and this becomes manifold when it is Automation.

Modbus®

Let



the



Protocols



be many.....



We can integrate and deliver



➤ *VFD & MCC Panels & Instrument Panels and Control Desk*

Real Time Engineering manufactures and integrates State of the Art Control Panels , Variable Frequency Drives, Instrument Panels, MCC and Control Desks as per the customer specifications





➤ VFD & MCC Panels & Instrument Panels and Control Desk

The Art of manufacturing sectionalized panels has enabled RTE to meet the stringent specifications of Steel Plants both in In-Door and Out-Door duties.





Real Time Engineering

➤ *Energy Monitoring and Reporting*

RTE's Two decades of experience in instrumentation and integration has opened up a new vista in Energy Monitoring and Reporting. The knowledge of placement of right transducers and integrating the usage and prediction through customized software can effectively help the user to bring down the energy expenditure in user specific format.





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At your service:

Real Time Engineering Pvt. Ltd.

136B, Rash Behari Avenue,

Kolkata – 700 029, India

Phone : 91.33.2464 5228

e-mail : contact@realtimegroup.co.in

Website : www.realtimegroup.co.in

THANK YOU