



Real Time Engineering Pvt. Ltd.



From Field Sensors To Cloud Computing... www.realtimegroup.co.in



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A brief history of time since 1994...

Real Time Engineering Pvt. Ltd. (RTEPL): (Previously known as Real Time Micro System) is the key concern of Real Time Group of companies, best known in the business field of Electrical, Instrumentation & Automation Engineering since 1994. The company is driven by a balanced team of senior as well as young yet experienced engineering professionals with experiences & exposures in national and international industries.

People have always been Real Time's true strength: Most of the engineering, sales & service staffs have come up through the ranks of the organization.

RTEPL 's field teams have developed unique skill sets to see a project through from kick-off to commissioning.

Our hands-on approach to designing and engineering has created satisfied clients throughout the World.

In 1994 RTEPL entered the

Automation arena in Northern Coalfields Ltd, Kankri, India with PLC Based Automation System for Permanent Coal Crushing Unit. This job involved complete Design, Engineering, Supply, Software Development and Commissioning of the system.

In **1995** Automation System of Gas Cleaning (ESP) System was executed in Starlite Copper Ltd, Tuticorin, India.

Simultaneously , Up-gradation and Revamping of Control System and Electrics of both Primary & Secondary Cigarette making Plant at ITC, Munger was initiated. This project continued till 2002 and RTEPL received the



repeat orders from ITC thereafter.

In 1996-97 RTEPL entered the Control, Electric and Automation of Traction application field.

One of the most challenging assignment was executed in style for Damodar Ropeways , Science City, Kolkata, India for joy-ride of passenger ropeways.

In 1997-98 RTEPL was given the responsibility by L&T to execute complete automation of Wagon-Tippler for Jindal Steel.

Success of the above projects made Megatherm feel comfortable in the year 1998 to introduce automation in Various Automobile Spare Part induction hardening of machinery Manufacturing in India. In 1999 TLT Engineering India Pvt. Ltd. India showed confidence in





RTEPL to develop comprehensive PLC Based Automation & Instrumentation System of Steel Plant Oriented Gas Boosting Station in various plants ao SAIL and the business continues till date.

The continuity of business with IPSEN India Pvt. Ltd. since 1995 till date in the field of PLC Based Automation System for Heat



Treatment Furnaces is also a major relational milestone in the history of RTEPL.

In the year Y2K, for Automation and Electrics of Coal Washeries



and Coal Beneficiation Plant, RTEPL was selected as the preferred partner by Humboldt

& Wedag Ltd, for various Coal Mines and Steel Plants in India and various projects were undertaken and completed till same year 2008. The relationship and multi-project activities were performed in Automation System of ESP Gas System. Cleaning collaborated with Alstom Power **Projects** Ltd. for Various Aluminium Process Plants in India. This was a seven year long pursuit.



Year Y2K was celebrated by RTEPL by cracking prestigious orders abroad in PLC Based Control System for ARC and Laddle Furnace in Oman Steel, Oman in collaboration with 21st

A brief history of time since 1994...contd.

Century Engineering Projects Ltd. India.

In the year **2001**, **RTEPL** successfully completed PLC Automation System for Combined Blowing of LD Converter at SAIL, Bokaro Steel Plant India, in association with Otto India Ltd, India.

Year 2002 was highlighted by the PLC Based Automation System of Slag Granulation Plant at Tata Projects.

SCADA System for 3 x 7.3MW Tista Canal Fall Hydel Power Plant, was excuted in the year 2002. Automation and Electric System of Iron Ore Handling and Processing plant in Tata Steel was initiated in the year 2003.



Corporate Presentation-Rev 0-016





Automation of Gas Gathering and Gas Cleaning System in various plants at ONGC, India was executed in the year 2003 at Kuthalam.



Another long standing relationship got initiated in the year 2004-2005 for Automation of Emergency Shut Down System for Oxygen Plant with Linde, India at various Steel Plants across the country. CO gas fired 110 TPH Re-Bar Mill Walking Beam Type Re-Heating Furnace Automation for Tata Steel was excuted simultaneously with Bricmont as O.E.M.



In the year 2006 the turnkey execution of Automation of Gas Gathering and Separation System was awarded by L&T for ONGC.

Mixed gas fired 100 TPH Walking Beam Type Re-Heating Furnace for Bar and Billet Mill at Durgapur Steel Plant was executed after the confidence of Bricmont as O.E.M. got established in Tata Steel.



Automation System of Flare Gas Recovery System was executed in the year 2008 at IOCL, Haldia, India.Bar Mill Walking Beam Re-Heating Furnace at JSPL, Raigara, Chhattisgarh, INDIA through Bricmont once again in the year A brief history of time since 1994...contd.

2007. speaks high of **RTEPL**'s customer commitment.

Yet Another O.E.M. relationship emerged in the year 2008 when Automation System of De-Sulpherisation Plant for LD Converter was awarded to RTEPL



by MICCO (Gillanders Arbuthnot & Co.Ltd.), India for Tata Steel. Automation System of Sulphuric Acid Concentration Plant for India Defence was also concluded in the same yaear

PLC Based Automation and Instrumentation System of Steel Plant Oriented Gas Mixing Station for various SAIL and Private Steel Plant in India was initiated in the year 2009 by TLT Engineering India Pvt. Ltd.

Automation of Cooling Water System for Caster at Tata Steel Ltd, India was executed successfully in year 2009 tyingup with NICCO Projects, India.





Year 2010 was celebrated with a new break-thru in the history of automation as Level-1 Automation System of 60 Ton AOD Converter, Gas Cleaning System and FAFA System was awarded to RTEPL by IgH Raine, Germany for making stainless steel in SAIL, Salem Steel Plant, India.

In the same year Linde India's faith on RTEPL for Automation of Emergency Shut Down System for Nitrogen Plant was proved to be a myth for variuos Steel Plants, Oil Refineries.

A Turn - Key contract for Automaton, Instrumentation and Safety PLC System of LD Gas Holder and Gas Export Plant for Tata Steel Ltd, India was awarded to RTEPL by MICCO (Gillanders Arbuthnot &Co.Ltd.), India in the year 2011. When 160 TPH Stainless Steel Walking Beam Type Re-Heating Furnace at Bhuvee Steel, Orissa, INDIA was conceived, Bricmont recalled RTEPL for the same. Automation, Instrumentation

and Electrical System for Emergency Water Supply System for Laddle Furnace-3 for Tata Steel Ltd, India was awarded to RTEPL by MICCO (Gillanders Arbuthnot &Co.Ltd.)

Another challenging job emerged in the same year as contract from Durgapur Steel Plant, SAIL-India for Automation, Instrumentation and Electrical System for Emergency Water Supply System for Bloom and Round Caster (BRC) was awarded.

2012 was celebrated by a very special order from SAIL, Bokaro Steel Plant, India for Automation & Instrumentation System of Cast House Slag Granulation Plant for Blast Furnace 1, 2 & 3 in technical collaboration with CET, Ranchi, India.

For automation of 220 TPH Walking Beam Type Re-Heating Furnace for Medium Structural Mill at Durgapur Steel Plant, Steel Authority of India Ltd, INDIA, RTEPL was the automatic choice of Bricmont once again.

A brief history of time since 1994...contd.

220 TPH Walking Beam Type Re-Heating Furnace for Medium Structural Mill automation at Durgapur Steel Plant was awarded simultaneously to RTEPL by Bricmont.

Upgradation of Automation and Instrumentation System for Sinter Machine-1 for SAIL, Bokaro Steel Plant, India was awarded to RTEPL by MICCO (GACL), India in the year 2013.

Automation, Instrumentation System for Cooling Water Supply System for BF-1 at RINL, Vizag Steel Plant was executed in the year 2014.

Safety PLC System of LD Gas
Holder and Gas Export Plant was
a unique application at Tata Steel
Ltd, India where the Design,
Engineering, Supply, Erection,
Software Development and
Commissioning of Complete
Instrumentation & Automation
(SIEMENS Safety PLC) System
was successfully implemented
by RTEPL in the year 2014.





Emergency Water Supply System for Laddle Furnace-3 at Durgapur Steel Plant got commissioned at the same time proving RTEPL's competence in

handling simultaneous projects at different Geographical locations and with varied technological challengers. In both the two cases MICCO (GACL) was the O.E.M. partner.

In the year 2014 when Indonesian Steel maker Ms.PT. Gunung Raja Pakshi was looking for an Automation Expert who could handle execution abroad in style. RTEPL rose to the occasion

and proved the worth by accepting the complete Engineering, Manufacturing, Commissioning of Level-1 Automation & Instrumentation System for Material Handling process for EAF and LF of SMS-2. Simultaneously, another package

for Natural Gas Fired 100TPH Walking Beam Type Re-Heating Furnace for Beam Plant-1 was off-loaded to RTEPL.



PT. GUNUNG GARUDA

Steel Is Our Business

CariLogo.Com

The complete Design,
Engineering, Manufacturing,
Supply, Erection Supervision &
Commissioning of Complete
Electrical (MCC, PCC, PDB),
Automation, VFD and
Instrumentation System could
be completed in the year 2015 in
perfect time schedule.

A brief history of time since 1994...contd.

The engineering excellence and perfection in time schedule adherence has made RTEPL an international expert in the field

of complete Design and Engineering of Automation, Electrics and Instrumentation.

RTEPL at present executing with the same client in Indonesia that is expected to be executed in the year 2016.

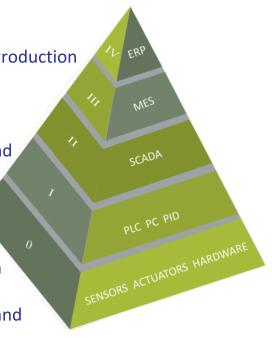
- 1. Beam PLANT1 Automation Hardware and HMI Up-Gradation of Level1 and Rolling Schedule.
- 2. Automation Revamping of Wire & Rod Mill (WRM-1).
- 3. Automation, Revamping, Tracking and Scheduling of Beam Plant-2 Tandem Rolling Mill.



Field of Activities & Expertise

Total Process Solution for...

- Automation Electrical Instrumentation
- ► 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





Field of Activities & Expertise...contd.

In **RTEPL** physicists, metallurgists and

chemical engineers share the thought process with the Automation

experts and thus the organisation operates as a well synchronised orchestra. While the automation of Combustion System of Reheating Furnace is



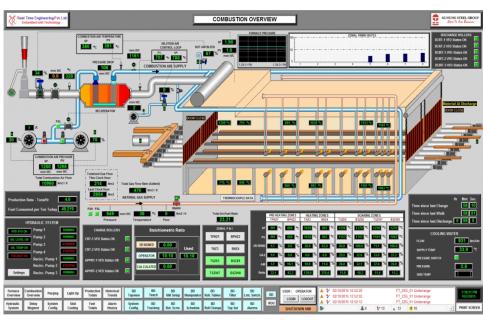
designed, RTEPL gives the highest priority to the process engineers. The human-machine interfacing is depicted in the screen layout of the HMI with intense care to make it as realistic as possible.

RTEPL has gained the competence of developing the latest tools to make the HMI-the kind of its own with state of the art cutting edge technology.

Despite dramatic improvement in the

display
technology,
HMI software
development
has fallen
behind,
producing many
difficult user
interfaces.

As because present modern devices come with custom

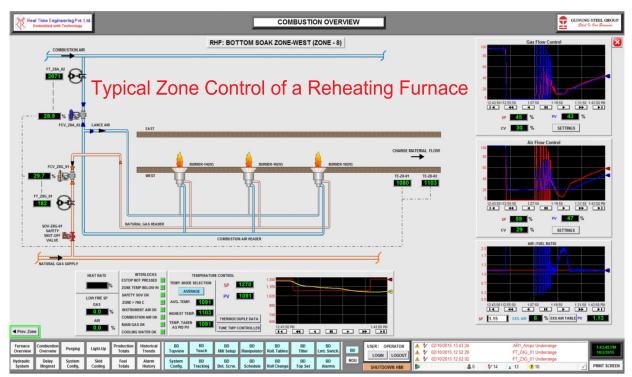


Combustion System Overview of a typical Reheating Furnace



Field of Activities & Expertise...contd.

processors and/or Operating Systems (OSs), building user interfaces requires special skill and cohesive, easy-to-use HMI development tools that wrap high-level modelling and graphical tools around detailed generator produces code for the chosen processor architecture, and everything from graphics to logic gets



knowledge.

RTEPL emphasizes on such issues to aid designers in this difficult task, RTEPL provides custom programming.
The tools hide the processor from developers so they can focus on their applications. A code

used and reused.

RTEPL respects the Level Zero and One of Customer Application & as understanding of



Field of Activities & Expertise...contd.

man-machine interface is highest there.

In order to achieve this, the organisation arranges regular exchanges with field

level technicians and original instrument manufacturers.

RTEPL's respect to Level Zero has enabled us to accept any or all Automation Hardware - be it Rockwell, Siemens, Schneider or any other as RTEPL

sincerely believes that

Customization is the

Key.

In the journey of over Two Decades, the organisation has acquired expertise in Design & Engineering of Instrumentation and Automation System for Natural Gas gathering and collection station in the inception years.

IOCL during formative period of the journey in 2007-08.

Design and Engineering of Instrumentation, Electrical & Automation



Design & Engineering of Automation System for Flare Gas Recovery System in Oil & Gas Industries was a natural outcome in knowledge base while working with System for Cooling Water Plant for Blast Furnace, Ladle Furnace, caster, Re-Heating Furnace, etc. in major steel plants in India was achieved in association with Technology Partner



Field of Activities & Expertise...contd.

Bricmont (Andritz Metals). The expertise and special knowledge base in this engineering application was conceptualized during the execution in the most prestigious steel plants like Tata Steel, Durgapur Steel Plant, Vizag Steel Plant, Salem Steel Plant and of late in Indonesia.

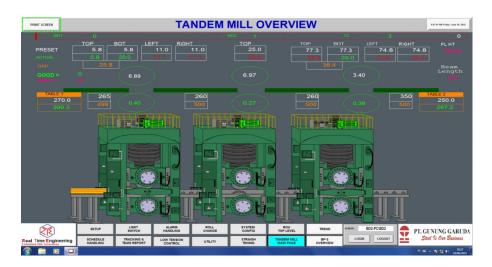
Experience and
Expertise of Design &
Engineering of
Electrical, Automation
and Instrumentation
system for Material
Handling System for
Electric Arc Furnace,
Ladle Furnace, Sinter
Plant was acquired with
long lasting relationship
with organisations of

global repute like Linde, Bricmont, Alstom, Ipsen and others.

RTEPL through the process of implementing the expertise in Design and Engineering of Electrical, Automation and Instrumentation system

Handling Systems for Electric Arc Furnaces, Ladle Furnaces, Sinter Plant became the automatic choice of leading O.E.M.s and end-users.

Wide experience in Design & Engineering of Electrical, Automation



for Slag Granulation Plant, Design & Engineering of Electrical, Automation and Instrumentation system for Material and Instrumentation system for Re-Heating Furnaces for Steel Industry gave RTEPL the technology edge over



Field of Activities & Expertise...contd.

In the field of Automation, Customers quite 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.

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

3rd Party Interfacing and Communication-

As RTEPL is a multi platform operator, RTEPL addresses the interfacing needs of the



customers. In medium size organisations, retrofit in every aspect of engineering is a challenge and this becomes manifold when it is Automation.

RTEPL'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.



Philosophy & Companions



It was a first generation enterprise



Field of Activities & Expertise...contd.

others while addressing international enquiries.

Design & Engineering of Electrical, Automation and Instrumentation system for Heat Treatment Shops and special Furnaces for Automobile Industries.

Design & Engineering of Electrical, Automation and Instrumentation system for Gas Boosting

& Mixing Station (BF & CO Gas) for Steel Plants.

RTEPL's Expertise in Design, supply & Engineering of Electrical and Instrumentation system for Automation & Level-2 Communication for AOD Converter & Level-2 Communication for Ladle Furnance enabled EAF & LF Supplied by SMS-Group to accept

RTEPL as the chosen automation partner in PT. Gunung Raja Pakshi, INDONESIA. steel plant.

The flexibility in using Customized hardware has enabled **RTEPL** to meet the Automation Challenges in the past and it shall be carried forward in the future.

The integrated works at Kolkata, India has the



Field of Activities & Expertise...contd.

state of the art facilities for fabrication, panel building, testing and integration.

Real Time Engineering

the project manager who in turn assimilates the feed back from the application engineers in the field. RTEPL to deliver Data
Base Management
Solutions that becomes
simpler for the MES, MIS
and ERP layer to
become effective.

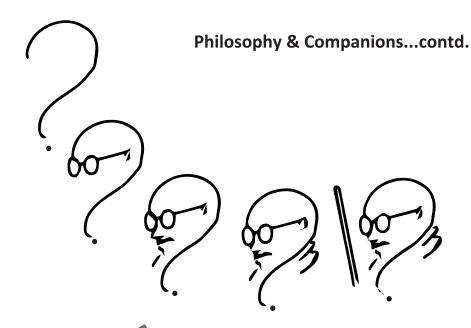
manufactures and integrates State of the Art Expertise in
Control Panels, Variable Machine
Frequency Drives,
Instrument Panels,
MCC and Control
Desks as per the
customer specifi-

Apart from this, a fully dedicated software development team co-ordinates the project activity through

cations.

Level Software as well in Higher Platform software has enabled sectionalized panels has enabled RTE to meet the stringent specifications of Steel Plants both in Indoor and outdoor duties.





A customer is the most important visitor on our premises. He is not dependent on us. We are dependent on him. He is not an interruption of our work. He is the purpose of it. He is not an outsider of our business. He is part of it. We are not doing him a favour by serving him. He is doing us a favour by giving us the opportunity to do so...

RTEPL is a Customer Driven Company



Philosophy & Companions...contd.

RTEPL is a Customer Driven Company

Customer is the top priority in **RTEPL**'s

business. Any repeat order that flows in enlivens the organisation and sends a message to become more alert from the viewpoint of

better performance.

CONVICTION
TRIST
SATISFACTION
COMMITMENT
DELIGHT
EXPERIENCE

as an Indian joint family, the mutual trust amongst the employees get reflected to customer in return.

SatiSfaction- The internal satisfaction of each employee is the key tool to performance. The organisation pays highest respect to this element of mind. this leads towards customer satisfaction as well.

RTEPL's long-standing relationship with world renowned O.E.M.s and customers proves the worth of above statement.

Conviction: Organisation believes in internal coviction and every employee must be internally strong to deliver in personal capacity.

TrUst-As the organisation operates





Philosophy & Companions...contd.

RTEPL is a Customer Driven Company

LoyalTy- Loyalty to customer is considered to be of highest importance.

GoOdwill- The organisation strongly feels goodwill of business is built on the conviction, trust, internal satisfaction and loyalty. **RTEPL** feels that the business goodwill is more important than tangible business profit.

Com Mitment- RTEPL believes and emphasises that personal conviction gives rise to individual commitment and an integration of individual's commitment ultimately become collective commitment of the organisation.

DElight-RTEPL focuses on the happiness factor for every transaction be that inhouse or ef-house.

ExpeRience- Based on Conviction, TrUst, Sati Sfaction, Loyal Ty, Go Odwill, ComMitment and Delight the ExpeRience that organisation has gained is dedicated to CUSTOMER.

Apart from customer commitment, RTEPL believes in up-gradation of technology and manpower. People have always been Real Time's true strength. Most of the engineering, sales & service staffs have come up through the ranks of the organization.

RTEPL's field teams have developed unique skill sets to see a project through from kick-off to commissioning. Our hands-on approach to designing and engineering has created satisfied clients throughout the World.

Periodic inter departmental training and project simulation off-line program keeps the engineers and trainees up to date.





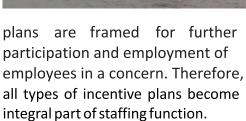
Philosophy & Companions...contd.

RTEPL is a Customer Driven Company

1.Motivation - The organisation puts highest efforts to put right men on right slot. The organisation carries out motivational programmes and incentive

the personnels considering it to be an important function in the industrialization world of today.

3.Better human relationship - The organisation promotes the philosophy of a joint Indian Family where interdependance plays the key role amongst the employees. The organisation organises out of office assimilation programs out side the office in the bounty of Nature.



2.Efficacious Utilization - The organisation Efficiently manages





Philosophy & Companions...contd.





































Our Companions



Dreams

As eminent nature lover Arijit Bannerjee suggests through his photograph. Look back and learn from the past.



Use the learnings to make a better tomorrow- for yourself and others...





The very very special experience of over Two decades in the field of Automation, Electrics & Instrumentation has given birth to a few dreams involving core strength and CORPORATE SOCIAL RESPONSIBILY in India.

While operating in a State of the Art Technological field it sometimes becomes extremely difficult to find out the right human resource to achieve the objective.

RTEPL wants to bridge this gap by setting up a finishing school for the under privileged but bright students.

RTEPL has collaborated with a society that operates in the fringe of The Sundarbans, a National Tiger Reserve. Through this society RTEPL organizes Medical Camps in the rural area where the economy is subsistent type and the basic amenities are yet to reach the benchmark. There is no dearth of talent in that area and RTEPL feels committed to uplift the intellectual students of the area by introducing a finishing School.

Apart from this dream, the organization encourages to volunteer services in this fringe area where man-animal conflict is



Dreams...contd.



highest. This volunteer effort not only enriches the basic human being but also generates a fellow feeling amongst the colleagues.

The challenges of this particular geographical area are manifold. One of the most important parameter is absence of electricity as the place is a cluster of riverine deltas and islands. While addressing the challenges the

solar power generation became the most effective alternative for the organization. RTEPL wants to expand in this trade and has already made substantial progress by adapting a tech-savvy small scale manufacturing company and in near future has the dream of becoming a major player in the field of solar power generation.



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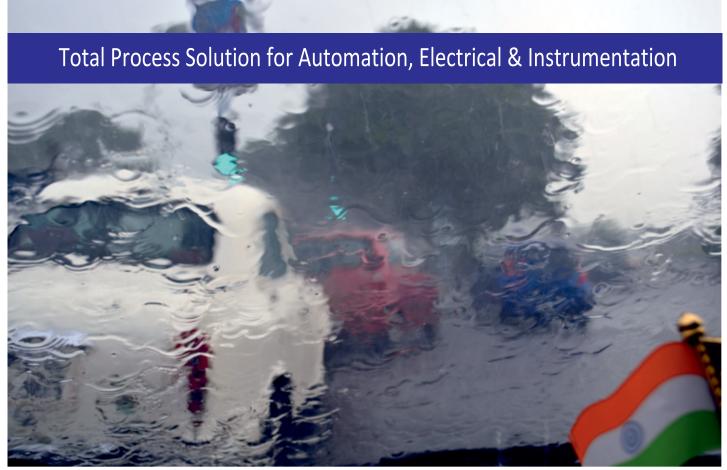
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"The most pathetic person in the world is someone who has sight but no vision."

Helen Keller

