

# Engineers India Limited



## INSTRUMENTATION & AUTOMATION : KEY CHALLENGES

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# INDIA'S ENERGY BASKET



# INSTT & AUTOMATION- A SYNOPSIS



- In today's competitive global markets, economies in scale of production with refining capacity, capability for processing multiple mix of feed giving enhanced value added products, operational flexibility for complexly integrated units and enhanced energy efficiency of operation are the need of the hour for sustainability of oil and gas processing sector
- Instt / Automation continues to be a “Key Enabler” in achieving the above objectives
- With adaptation of latest technology and innovation , the instt / automation industry is able to set new bench marks, to meet the challenges from time to time

# INSTT & AUTOMATION - USER'S WISH LIST



- **Enhancement in plant performance**
- **Energy optimization with effective process control and reduction of Capex / Opex**
- **Quality and Reliability of plant operation**
- **Safety and Security of plant asset**
- **Compliance to environmental standards / HSE norms**



# INSTT & AUTOMATION - KEY CHALLENGES



- \* Leveraging of Technology for enhanced production with optimum resources
- Ensuring safe and sustainable operation with inherent safety, intelligent sensors and seamless flow of data/information
- Uninterrupted feed/product transportation with pipeline integrity and using surveillance systems with central command / control centre for remote operation
- Effective inventory management in products storage and distribution
- Improved refining margin with maximum productivity meeting market demand and energy efficient process optimization
- Hardware design concepts for reduced installation and maintenance efforts
- Reduced plant down time and enhanced plant life cycle
- Enterprise level information flow with data security