

Authorized Solar Distributor

> Schneider GElectric



CECPL: Fire Protection System(IIoT)

Control Electric Company Pvt. Ltd.

Ultimately enhanced Safety, better Controls and more Reliability







Schneider GElectric

CECPL Intro Fire Incidents Our Specialty Sites Automated About Solution Features & Benefits Pump House Panel







Schneider

• Dynamic and professionally managed since 1995.

- Introduced one Innovative product every year.
- Understand present and future energy requirements of the country's power sector.
- Customized solar solutions.
- Single stop for all Problems needing Intelligent Solution.

Certifications	ISO Certified MNRE Channel Partner MSME Approved CPRI Approved
Location	Employees & Dealers across pan India.
Experience	More than 25 years in EPC Electrical, automation and in Solar.
Manufacturing Plant	A 80, Sector 80, NOIDA, Uttar Pradesh, India



Fire Incidents in Oil Industries



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Date Place Description Aug 2000 Fire accident, 1 killed TLF Gantry Prod. Building, IBP, May 1989 Major fire causing loss Korba of Rs 1.11 crores Nov 1998 Oil Depot, Jhansi Fire accident Fire accident, 5 killed May 1999 Panipat Refinery Feb 2001 Vishakh Refinery, HPCL Fire in CDU, site damage and shut down Feb 2001 Numaligarh Refinery Fire causing shut down



Sites Automated by CECPL



- 2. Asoti
- 3. Mughal Sarai
- 4. Jallandhar
- 5. Bijwasan
- 6. Palam AFS
- 7. Pathankot
- 8. Ajmer
- 9. Jhansi, Ambabai
- 10. Amritrsar
- 11. Hissar
- 12. Aonla





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About the Solution

Schneider GElectric

- CC&M
- Computerized Control and monitoring System
- Salient Features
- PC Based Self Diagnosing, Customized, Reliable,
- Fully Integrated and Automatic system







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Conventional Vs CC&M

Conventional	CC&M
System not integrated	Integrated
Manual monitoring	Centrally monitored
No data base	Auto log book facilities
Manual	Automatic
Upgradation not easy	Upgradable & Scalable
Questionable Reliability	Reliable (proven)
Local Monitoring	Cloud Monitoring
Needs checking regularly	Alerts automatically when system is down





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- PC control, remote Panels, Cabling of entire system elements to Centralized Panel
- Transducers used instead of switches
- IIoT hardware for Remote Diagnosis & Trouble Shooting.
- High MTBF

Software

 Cloud software, Microprocessor Programming, User friendly GUI accessible on phone / Laptop / Tab / PC.



Features & Benefits



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Integration

Automation











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Integration

Centralized control and monitoring of all the devices

- Supervision of multiple systems from single point
- Fire & Safety Management , control and data collection centrally
- Alarm logging at PC with duration of fault
- No Manpower requirements.

Integration: Contd..

Integration of all the systems

- Pressurization System for Fire Hydrant
- Main Fire Fighting Pumps
- Fire Water Tank Filling System
- Tank cooling System
- Fixed Foam Installation
- Fire Alarm and PA System









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Automation



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Auto Test

- Self-monitoring Alarms and self printed reports in case of faults and periodic auto test reports
- Self-test of all fire fighting equipment
- Self-test of the controlling software / hardware
- No Manpower for normal operation
 - Standard predetermined response irrespective of training , location or level of motivation of personnel .
 - Escalation of Faults on Time based Matrix.



Auto Test Report

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IOCL MS Terminal Mughal Sarai <u>System Auto T</u>	est Repor	t			24-Dec-02 11:08 AM
Auto Test Motorised Valve	ОК				
Tank 1 Motorised Valve	OK				
Tank 2 Motorised Valve	OK				
Tank 3 Motorised Valve	OK				
Diesel Engine Pump 1	OK		Pressure	7	Kg/cm ²
Diesel Engine Pump 2	OK		Pressure	7	Kg/cm ²
Diesel Engine Pump 3	OK		Pressure	7	Kg/cm ²
Diesel Engine Pump 4	Faulty		Pressure		Kg/cm ²
Jockey Pump 1	OK				
Jockey Pump 2	OK				
Air Compressor	OK				
Tube well 1	OK		Ī		
Tube well 2	OK				







Information

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- Fault Logging and display
 - Instant access to fault location/equipment
 - Data base of past faults through auto logbook
- 24X7 monitoring report
- Concise Information without misrepresentation of Facts
- Very Easy to use and operate
 User friendly GUI





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- Latest state of art, standard, off the shelf hardware & software
- Buffer relay between input and IIoT device for added safety
- Hardware used tested world wide in large quantities
- Already proven & accepted at companies like IOCL.
- Low Failure rate High MTBF (10 years +)





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Benefits Contd...

- Uptime of up to 99.995%
- Upgradable: Modular
- Easy to modify to suit changing requirements
- Future Options
 - All India Single point monitoring is possible
 - Video Monitoring System
 - Fire Brigade, Control Room Connectivity



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Pump House Panel







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After Sales Service

- Personalized Services One point contact
- TAT (Less than 24 hrs. Online)
- Professionally trained service engineers
- Support 9.30 AM to 6.00 PM (Mon-Sat)

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