




# Nexion Automation Pvt. Ltd.

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Case Study:  
Shaft Signaling  
System –  
Hindustan  
Copper Limited

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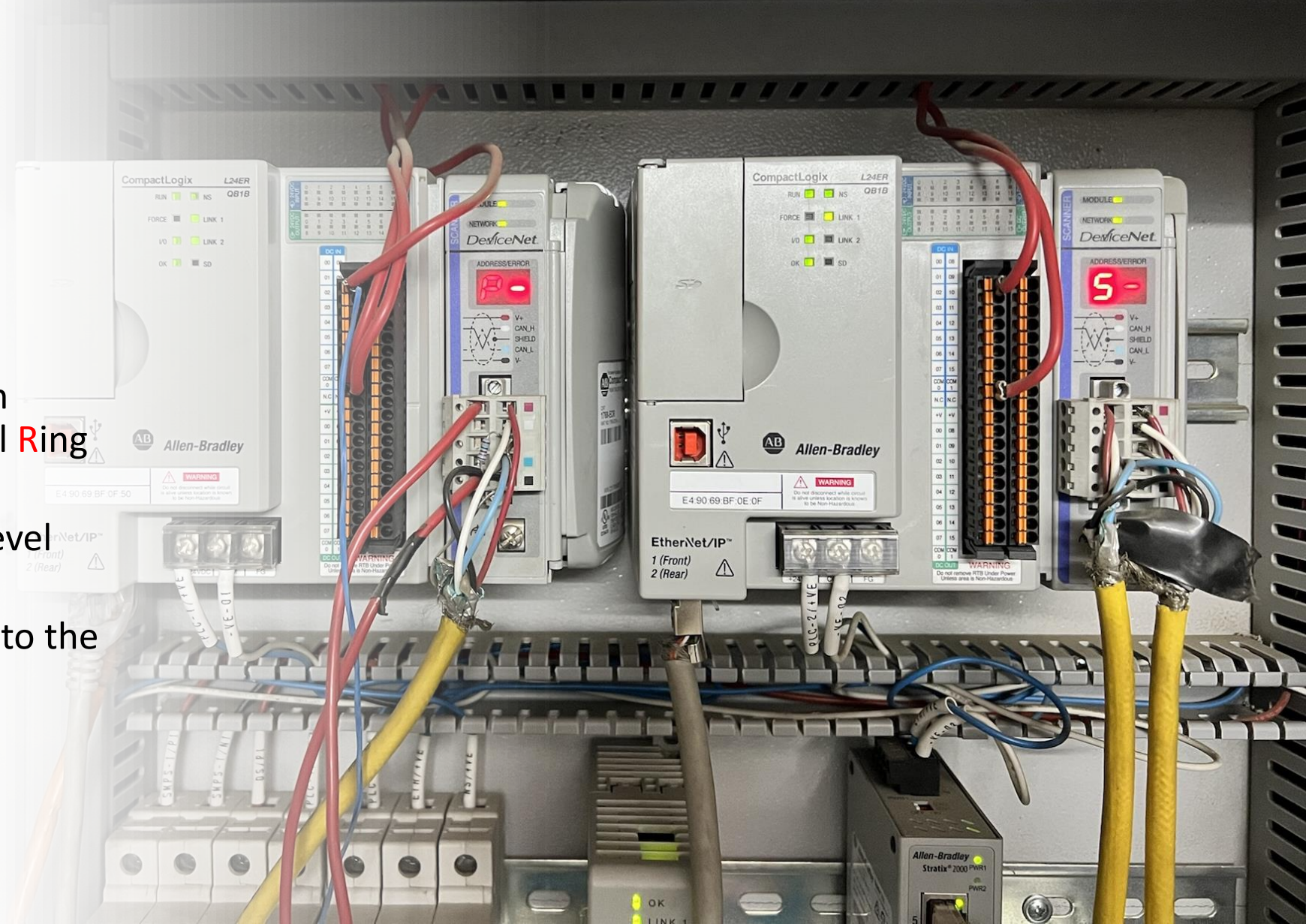
# Challenges

- Outdated legacy relay-based control system
- Cumbersome troubleshooting
- Less knowhow as system is 40+ years old
- Poor diagnostic capabilities of the system
- Availability of spares



# Solution

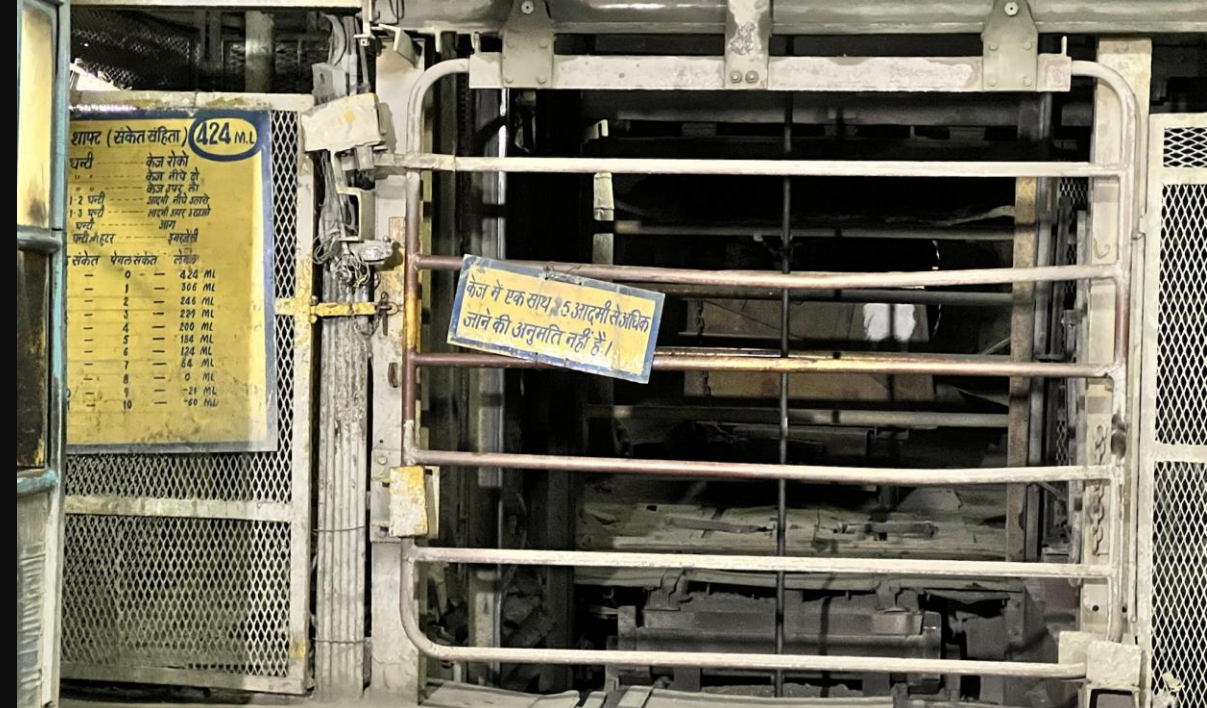
- Rockwell Automation base Redundant CompactLogix Control System
- Redundant communication network using **Device Level Ring** protocol
- Localized control at each level
- FT View SE SCADA control system for detailed view into the process from '0' level.



# Results

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- Modern PAC control provides faster and reliable solution.
  - Faster troubleshooting as status and health of the system is available to the operator on single click for all levels sitting half a mile away at '0' level
  - DLR network provides high availability of level controls along with ring diagnostics
  - Much flexible system to modernize the control capability
  - Historical data availability of the system for tracking and tracing the events
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Before

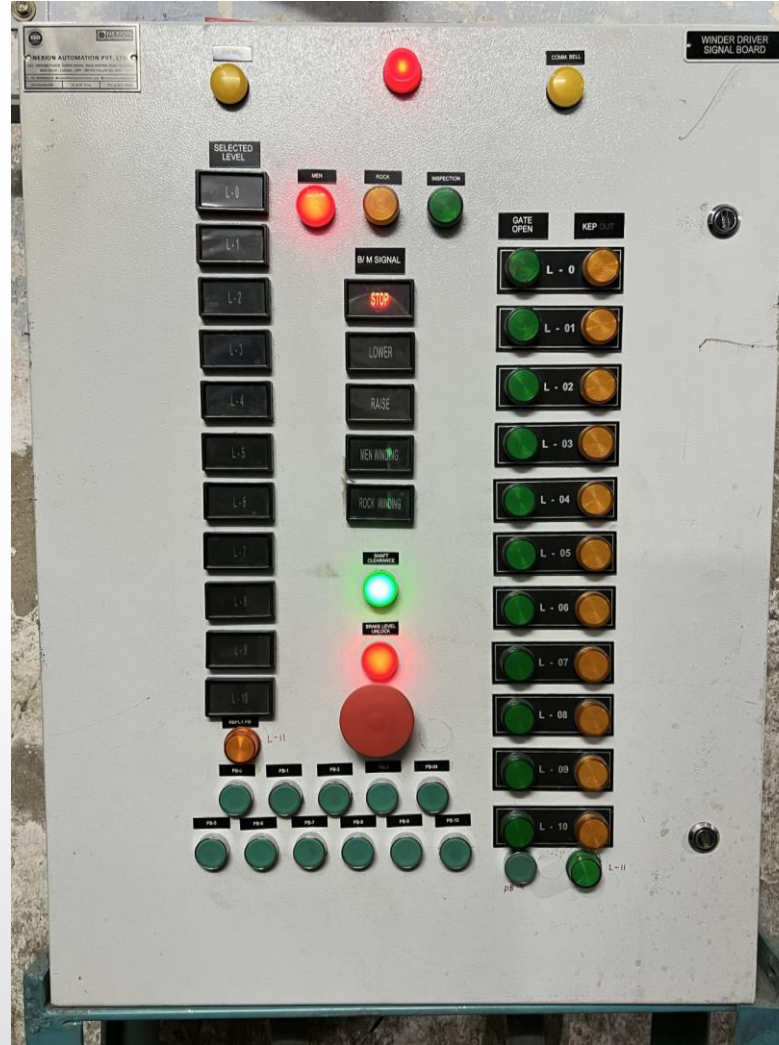


After

# Banksman Control Desk



Before



After

# Winder Driver Control Panel



Before

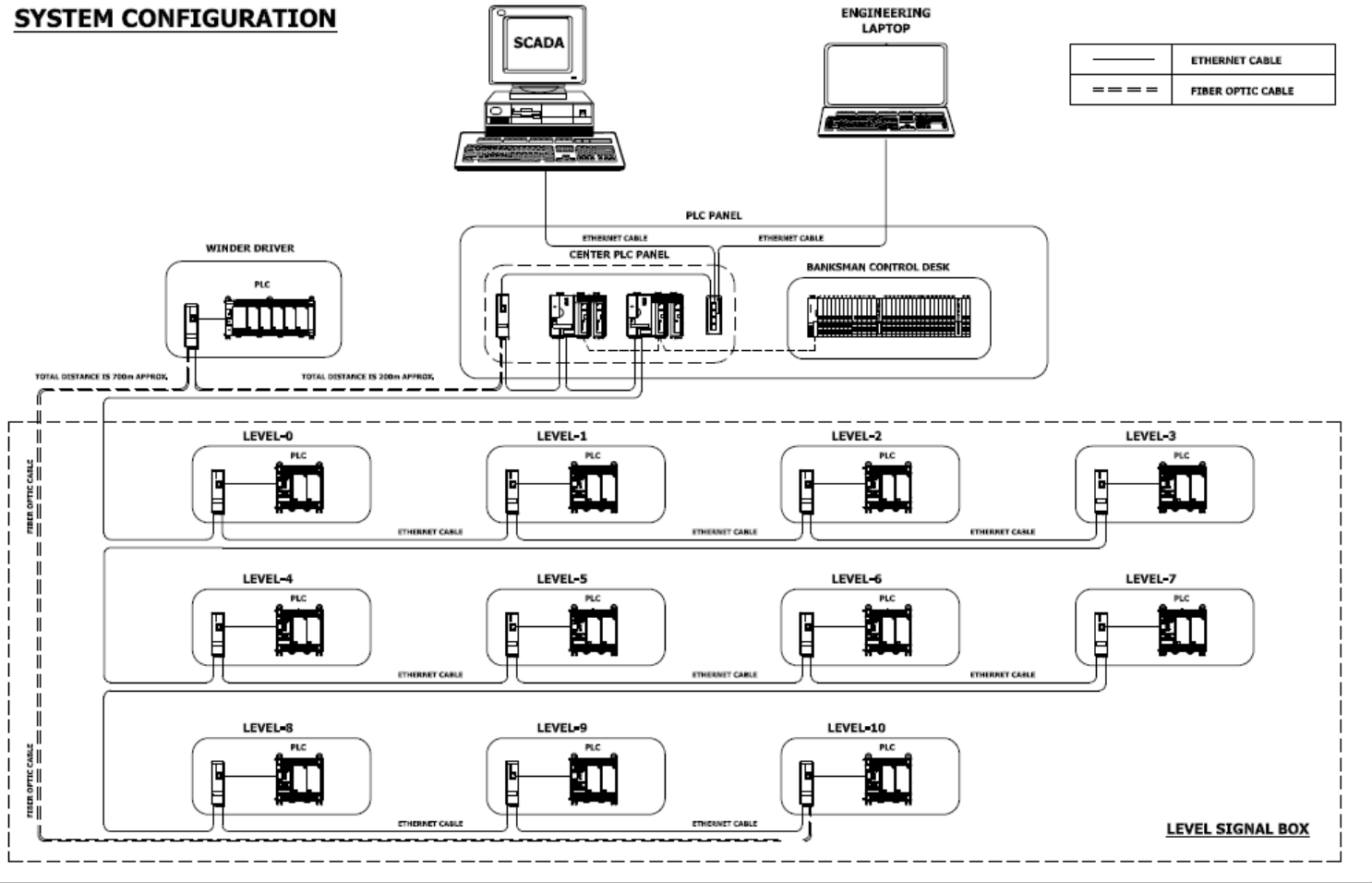


After

# Level Control Panel



# SYSTEM CONFIGURATION





हिन्दुस्तान कॉपर लिमिटेड  
खेतड़ी कॉपर कॉम्प्लैक्स  
HINDUSTAN COPPER LIMITED  
KHETRI COPPER COMPLEX

पो. ऑ. : खेतड़ी नगर-333504  
P.O. Khetri Nagar-333504  
ज़िला : झुन्झुनू (राज.) भारत  
Distt. Jhunjhunu (Raj.) INDIA  
Tel. No. : 01593-220001  
CIN No. : L27201WB1967GOI028625  
GSTIN : 08AAACH7409R1Z1

DATED: 24-05-2022

CERTIFICATE OF PERFORMANCE

Ref: S.P.O NO 9279 Dated: 28-08-2019


Name of Supplier: M/s Nexion Automation Pvt. Ltd. Delhi

Place of Installation: Kolihan Copper Mine, Hindustan Copper Limited

Name of Job: : PLC Based Service Shaft Winder Signalling System, 24 V dc 128 I/P & 128 O/P , complete with accessories, erection and commissioning.

It is hereby certified that the above mentioned work has been completed and the system has been commissioned successfully by M/s Nexion Automation Pvt. Ltd. Delhi

. The project is running satisfactorily, till date.

  
(V S SHEKHAWAT)  
CHIEF MANAGER (INST.)  
KOLIHAN COPPER MINE  
KHETRI COPPER COMPLEX  
HINDUSTAN COPPER LTD.

**V.S. SHEKHAWAT**  
C.M. (INST.) / HOD ELECT.  
HINDUSTAN COPPER LIMITED  
KOLIHAN COPPER MINE

# Letter Of Appreciation

# Thank You!

**Reach out us at:**

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**Recognised  
System Integrator**

A ROCKWELL AUTOMATION PARTNER