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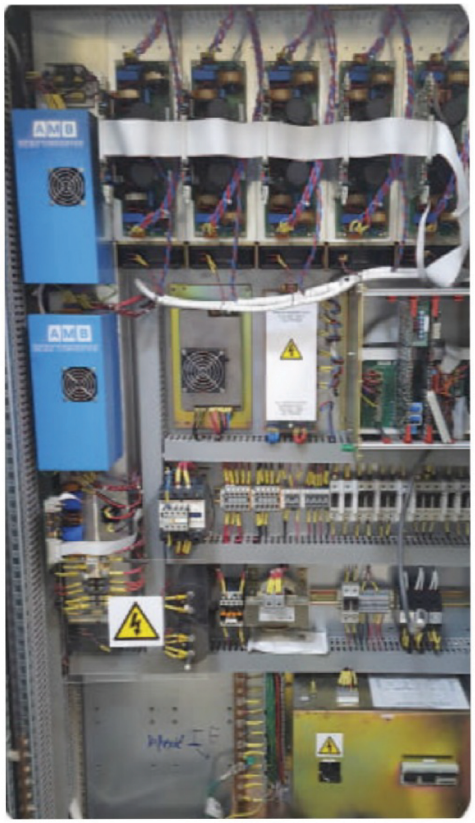
Main Areas of the Company's Activities



Taranom Baran Instrumentation Company

Taranom Baran Instrumentation Industry Company operates with a team of skilled and experienced specialists in the fields of electrical engineering, instrumentation, electronics, telecommunications, networking,

Commissioning of AMB V1/V2 Type Turboexpander Compressors



Completed Projects for Turboexpander Commissioning in Industrial Complexes:

1-Troubleshooting and commissioning of V1 series turboexpander at South Pars Refinery Phase 6

2-Troubleshooting and commissioning of V2 series turboexpander in two gas trains at South Pars Refinery Phase 12

3-Troubleshooting and commissioning of V1 series turboexpan-

Main Areas of Company Activities

The company's main activities include the design and reverse engineering of electronic and telecommunication equipment and devices, commissioning of compressors and rotating machinery, as well as the procurement and installation of telecommunication and CCTV systems.

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Main Areas of the Company's Activities



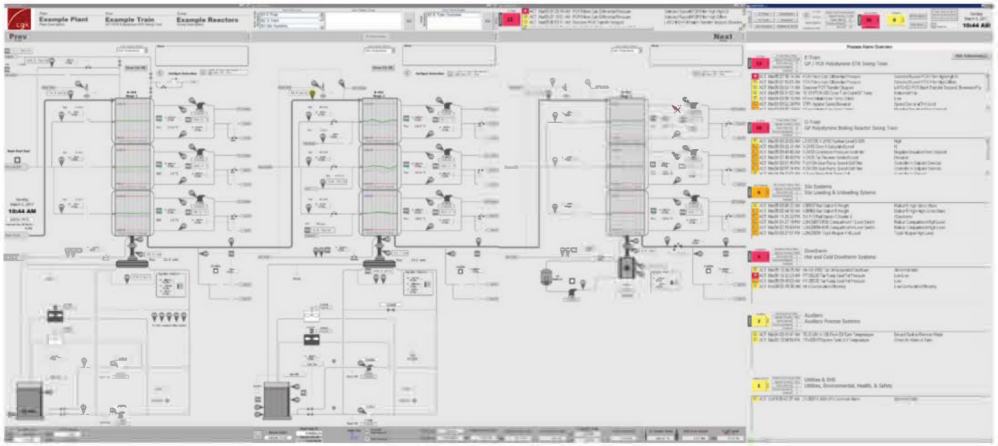
Commissioning of ABB DCS Control System Panels

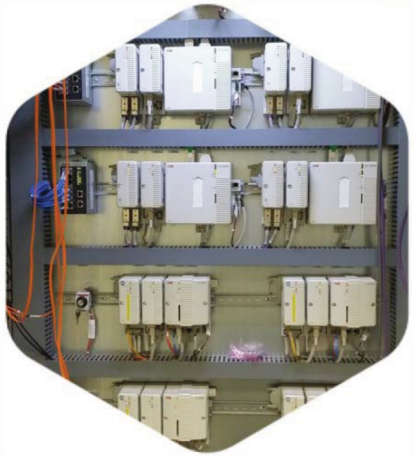
Implementation and upgrading of ABB DCS control systems in several refinery and petrochemical complexes have been carried out by the company's specialized technical team. A few examples of the completed projects by this expert team are listed below:

Completed Projects in Commissioning of ABB DCS Systems

ABB

1-Commissioning of ABB 800xA control system – MEG unit
2-Commissioning and upgrade of ABB 800xA control system – Olefin unit
3-Commissioning of control system – Parsian Sepehr Refinery
4-Commissioning of ABB 800xA control system – Ilam Petrochemical Company





Completed Projects in Commissioning of ABB DCS Systems

This graphical operating system is a type of Distributed Control System (DCS) that integrates all process data, sensors, and related information under a single platform, allowing operators, engineers, and managers to utilize this data for executing and optimizing industrial operations.

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Main Areas of the Company's Activities



Commissioning of SIEMENS PLC Control System Panels

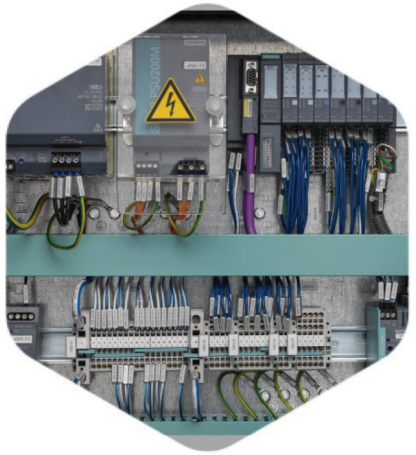
Executing commissioning projects for Siemens compressors in various industrial sites across the country has been among the company's key areas of technical expertise. A few examples of the specialized team's completed projects are listed below:

Completed Projects in Commissioning of Siemens Compressors

Completed Projects for Commissioning of Siemens Compressors:

6. Commissioning of centrifugal compressors at Ethylene West Stations 1, 3, and 5
7. Commissioning of centrifugal compressors at South Pars Phase 12 – Unit 103
8. Commissioning of all compressors at Hengam Petrochemical Complex
9. Commissioning of various Siemens packages, including Seawater, Turboexpander, PSA Unit, and Polisher Unit





Completed Projects in Commissioning of Siemens Compressors

1-Commissioning of CRACK GAS compressors
2-Commissioning of PROPANE compressors
3-Commissioning of ETHYLENE compressors
4-Commissioning of reciprocating compressors
5-Commissioning of CENTRE compressors – Shiraz Petrochemical Complex

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Main Areas of the Company's Activities



Installation and Commissioning of Network and Video Surveillance Systems

Design and implementation of various computer networks, video surveillance systems, and radio networks.
Taranom Baran Instrumentation Industry Company has officially started its operations to provide services in the field of Information and Communication Technology (ICT), with a specialized focus on CCTV systems, network services, and security and surveillance systems.

CCTV and network services

CCTV Services Include the Following Sections:

Supply of CCTV equipment from reputable brands in the market
Installation of CCTV cameras and related services
Support and maintenance of CCTV equipment
Repair of CCTV devices and components
Installation and commissioning of digital surveillance and security systems

The Networking Services Section of the Company Includes Three Main Categories:



Network consulting and solution design services
Network installation and project implementation services
Network support and maintenance services



Field of Activity

The company currently provides its services to clients in two main sectors:

CCTV Services
Network Infrastructure Services

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Main Areas of the Company's Activities



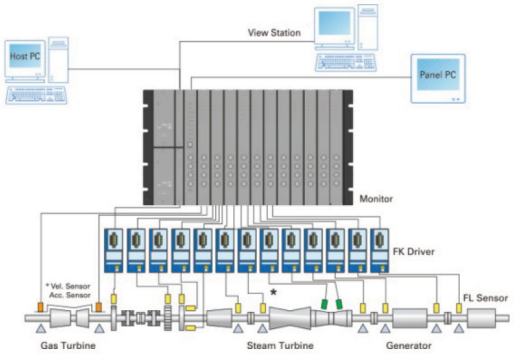
Design, Procurement, and Commissioning of the System

Vibration Machine Monitoring System

Including VM600, B&K, Bently Nevada, and Shinkawa systems

The online vibration monitoring system continuously checks and verifies the proper operation of sensors and proximitor units. In case of any potential sensor malfunction, it generates an alarm and sends the necessary output signals to the operator. The vibration monitoring package is equipped with a regulated power supply, ensuring that power fluctuations do not affect measurement accuracy.

Completed Projects



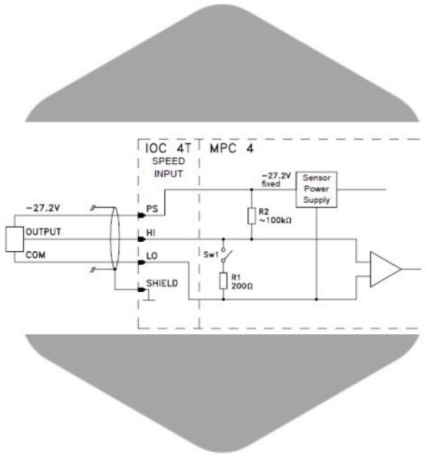
Completed Projects

1-Shiraz Petrochemical – VM600 System
2-Hengam Petrochemical – Bently Nevada System
3-Ilam Petrochemical – VM600 System
4-Bandar Abbas Refinery – B&K System
5-Ethylene West Pipeline Compressor Station – VM600 System









An example of the schematic related to the measurement of a sensor, along with its proximitor and corresponding card, is

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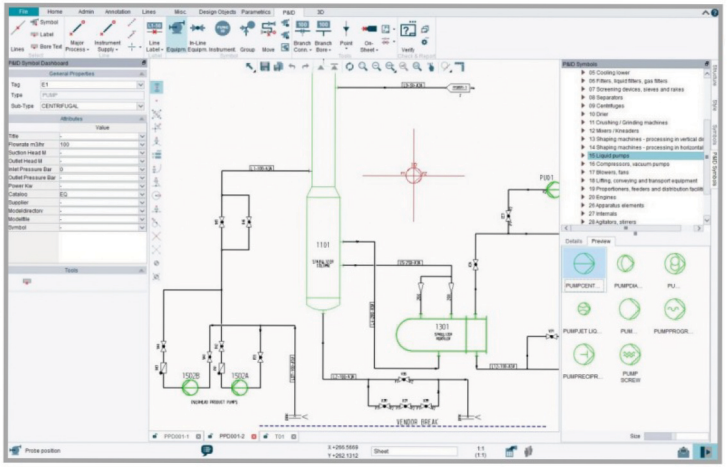
Main Areas of the Company's Activities



Preparation and production of all engineering documents for Electrical, Instrumentation, Telecommunications, and F&G systems

Including all documents such as MTO, Index, Datasheet, Specification, and others

Completed Projects



Completed Projects

1-Damavand Petrochemical
2-Kavian Petrochemical
3-NGL 3200
4-Bandar Abbas Refinery

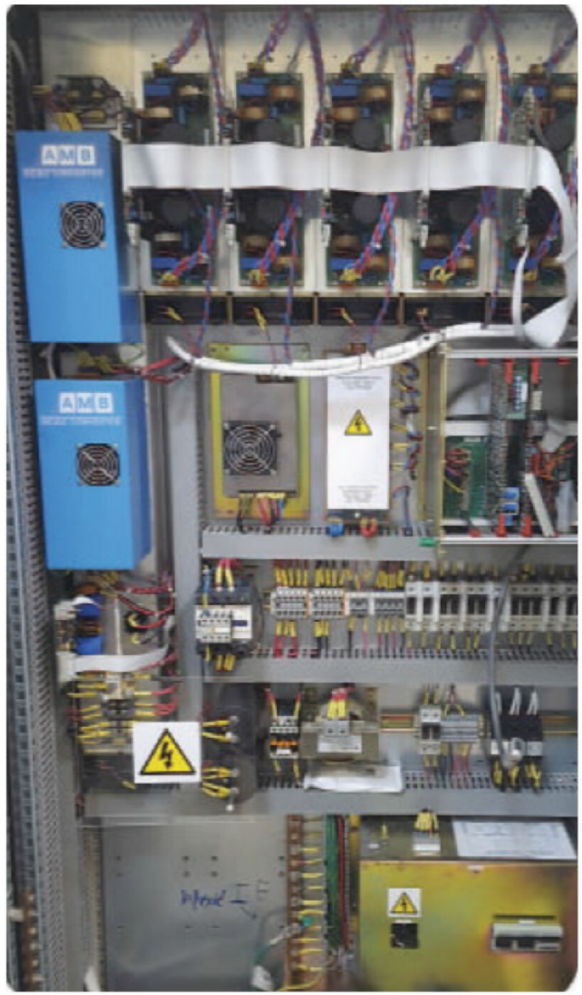
Sizing of all instrumentation equipment, including:



1-Sizing of Control Valves (CV), Pressure Control Valves (PCV), and Temperature Control Valves (TCV)
2-Sizing of Orifice, Flow Element, and Integral Orifice
3-Sizing of Pressure Safety Valves (PSV)
4-Sizing of Venturi
5-Extraction of Instrument List or Index from P&ID documents
6-Instrumentation Calculations
7-Preparation of Material Requisition (MR) documents
8-Preparation of Design Criteria or general project description documents

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V1 SERIES TURBOEXPANDER ELECTRONIC CARDS



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Reverse Engineering for V1 Complete Series of
Electronic Modules used at Kryostar TurboCompressor

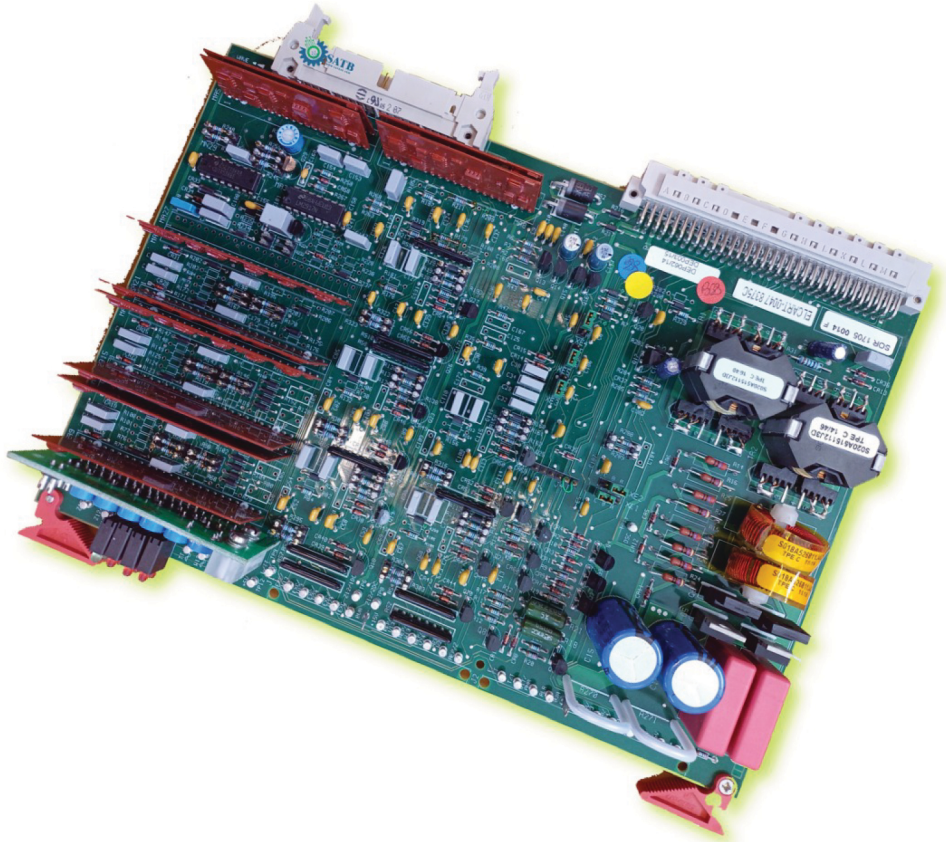
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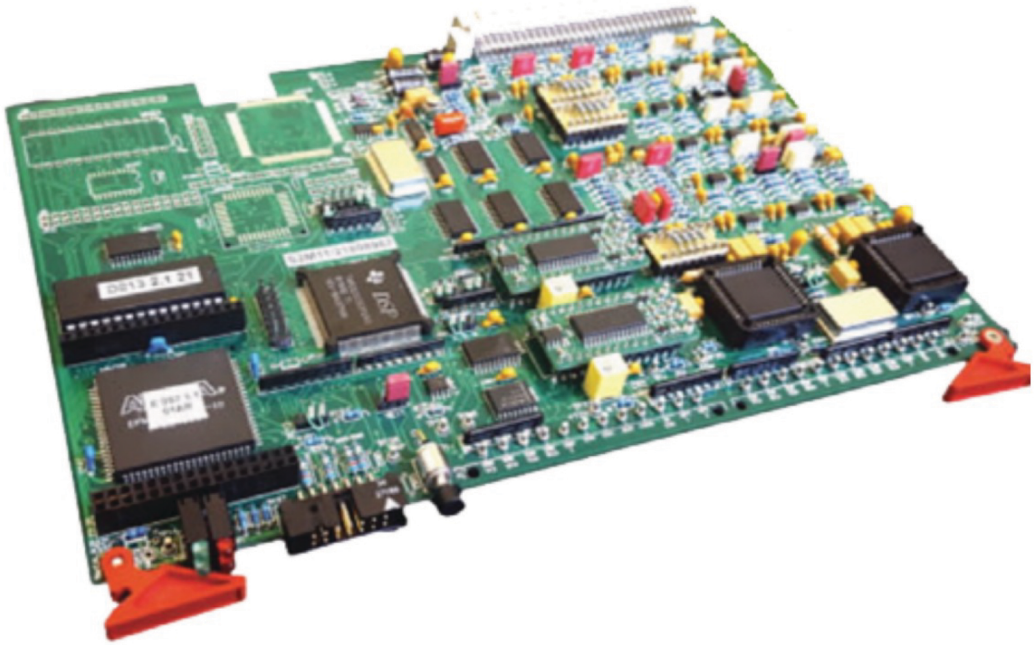
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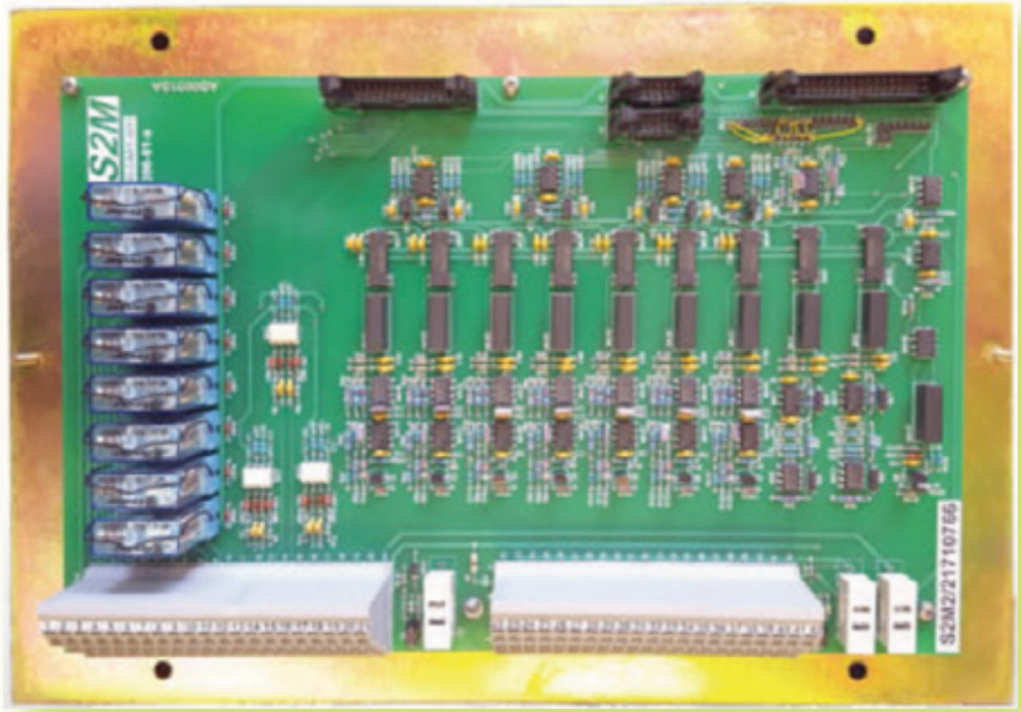
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