



**NEXALIS**  
— OIL & GAS —



# Corporate Profile

[www.nexalisinternational.com](http://www.nexalisinternational.com)

2021

# Building Blocks of Success

# **Focussed, Diverse, Decisive**



# About US

## History of Nexalis International

Nexalis International is a old firm and a trusted Engineering & System Integrator Company focused towards Oil & Gas industry's core Automation, Instrumentation, Information Technology & Telecommunication sector. Its current operational territories are Middle East, Africa and East Asia. A strong, customer-focused approach and the constant quest for top-class quality have enabled the Company to attain and sustain leadership in its major lines of business across last 2 decades.

Nexalis International was founded in early 1998 by a team of keen individuals with an extraordinarily flawless vision of the future.

As a technology-driven engineering conglomerate, **Nexalis International**'s capabilities cover large process plants Instrumentation & Automation engineering, building automations, data centers set-up, SCADA stations, facility Fire & Gas detection, information technology, and Telecommunications. Nexalis International is in a position to offer its customers a single window for meeting a variety of industrial requirements. Nexalis International has a successful track record in providing its services for oil & gas sector, refineries, infrastructure and power projects, and has technology relationships with world leaders that have enabled it to execute world-class projects. It continues to grow its overseas Engineering, Procurement & Integration business footprints, with facilities in Gulf region.

The company's businesses are supported by a wide marketing network, and have established a reputation for strong customer support.

Nexalis International believes that progress must be achieved in harmony with the environment. A commitment to community welfare and environmental protection are an integral part of the corporate vision. We look at ourselves as an extension of our clients business and are committed to providing services and solutions that are obsolescence proof, which complement your business strategy and help you achieve the maximum return from your investment with our proactive services.

## About Nexalis International / IAT

Instrumentation, Automation & Telecommunication (IAT) is one of the core businesses of Nexalis International.

The division has operations at UAE.

## Turnkey Instrumentation, Automation, IT & Telecom Solutions from Nexalis International

Nexalis International a Turnkey Solution Provider, offers comprehensive engineering procurement & Integration services from project concept stage to commissioning and maintenance.

Nexalis International is the leader in delivering comprehensive Automation, Instrumentation, IT & Telecom Solutions around the globe. Nexalis International has been delivering value through comprehensive solutions based on a varied technology and services portfolio like; project management, procurement & engineering, incorporating best practices and expertise in engineering & integration services.

## Our Offerings

Automation, Instrumentation & Telecom Solutions for a wide variety of industries Systems designed for optimal performance and energy efficiency.

Engineering Services like; Basic engineering, detail engineering, integrating diverse Instrumentation, Automation, Information Technologies & Telecommunications in real-time.

Process plant wide complete ICSS (Integrated Control & Safety System).

Life Cycle Services encompassing Annual Maintenance Contracts to Spare Parts Management.

Complete basic & detail engineering for plant wide CCTV system, PAGA system, Access Control System under Telecom services

Oil & Gas pipeline control system & Tank Farm Management.

Various Project Studies like; Feasibility Study, Concept Study, Fire & Gas Mapping Study through 3D Software etc.

Pressure based Tightness Monitoring system for pipeline application.

Hydrocarbon cable based Leak Detection System for pipeline.

Turnkey Field Instrumentation & Fiber optic communication.

Pipes, Flanges, Manual Valves, RTP pipes, Stress Analysis, Piping accessories etc.

## MAC Way of Business

Concept & Fire & Gas Mapping Study

Basic Engineering & Design

Detail Engineering & Design

Procurement of System & Support

Factory Acceptance Test

Site Acceptance Test

Stages of Project Execution

## Main Automation Contractor (MAC)

Nexalis International act as main automation contractor for Automation, Instrumentation, IT & Telecom services where all engineering services, project management, procurement, integration and site services are covered under project execution



# Our Engineering Portfolio



## Engineering for Instrumentation & Automation

Bringing global engineering experience to local project requirements

We help clients develop new energy assets, from well head to product transportation, for onshore application, through customized engineering solutions.

### Capabilities

- ▶ Conceptual and feasibility studies
- ▶ Basic and front end engineering
- ▶ Detailed design
- ▶ Operability and risk assessment
- ▶ Project management services
- ▶ Procurement services
- ▶ Commissioning & Start-up



## Project Management for Instrumentation & Automation

Delivering tailored solutions to meet client requirements

We provide full range of project management services to our clients including; engineering review, schedule management, cost management, construction supervision and commissioning services for oil and gas projects.

### Capabilities

- ▶ Direct assistance to client in project definition and prefeasibility stages
- ▶ FEED tender production, bid evaluation, supervision and review
- ▶ Design and EPC tender evaluation, contract preparation and assistance during negotiation with contractors
- ▶ Provision of project management teams, project controls and engineering supervision



# Our Commitment to Quality

Nexalis International - Quality Assurance team is committed towards ensuring quality of engineered solutions that exceeds customer's expectations.

## Customer Benefits

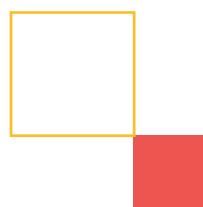
- ▶ Enhanced value
- ▶ Greater control
- ▶ Proven expertise
- ▶ Increased availability & flexibility
- ▶ Reduced alterations
- ▶ Maximized returns on investment
- ▶ Comprehensive solutions

# Industrial Control System

We are responsible for designing, developing, installing, managing and maintaining equipment which is used to monitor and control engineering systems, machinery and processes. our job is to make sure that these systems and processes operate effectively, efficiently and safely.

We offer complete control system solution on turnkey basis:

1. Distributed Control System
2. ESD System
3. F&G System
4. FACP
5. PLC/ RTU Systems
6. Containerized Control System
7. Containerized Electrical MCC
8. SCADA System



Fat Staging  
Area



Meeting  
Room



Engineering  
Team





Panels Ready  
for Third Party  
Inspection



Panel/  
Fabrication/  
Assembly Area



Panels ready  
for dispatch

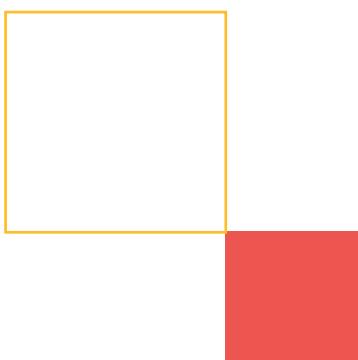
# Analytical Division

At Nexalis International we have in house expertise in diverse technologies such as:

1. Process Analyzers - Moisture, Oil in Water, HC, CO<sub>2</sub>, Conductivity etc
2. Continuous Emission Monitoring Systems
3. Liquid / Water Quality Monitoring System



# Product Supply Portfolio





### CONTROL VALVES

We supply all type of control valves intended for different services in the oil and gas industry.



### PRESSURE RELIEF VALVES

We supply all type of relief valves, pressure regulating valves and choke valves.



### MANUAL VALVES

We supply all types of Manual valves for all services and applications

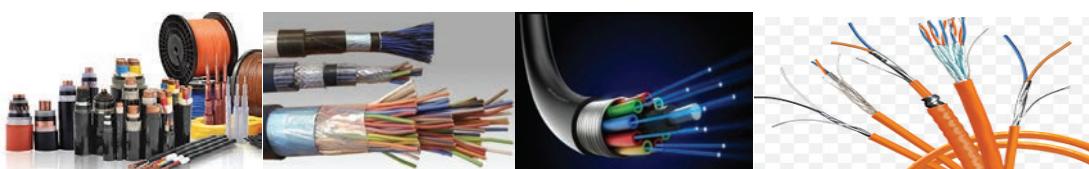


### EMERGENCY SHUTDOWN VALVES

We supply all types of SIL Certified ESD valves for Oil & Gas application.

## ELECTRICAL, INSTRUMENTATION & TELECOM CABLES

- ▶ All types of cables for electrical cables like; HV, MV & LV cables, bare copper earth bars, and earthing cables.
- ▶ All types of cables for instrumentation applications.
- ▶ All cables are meeting International codes & standards like; IEC60332 (Flame Retardant), IEC 60331 (Fire Resistant), BS6387 (CWZ testing) etc. for process and ESD/F&G application.
- ▶ All kind of Fiber optic cables and Controlnet cables like; RG6, RG11 etc. used for Telecom application.
- ▶ All kind of Digital bus cables like; Foundation fieldbus cables, HART supported cables, Profibus cables etc.



## FIRE & GAS DETECTORS & SIGNALING DEVICES

- ▶ All types of F&G detectors including; Flame detector, Toxic Gas detector, Hydrocarbon gas detector, Open path Gas detector, Gas detector with CCTV, building indoor detectors like; Smoke Heat etc.
- ▶ All kind of signaling devices like; Beacons, sounders, combination units etc.
- ▶ Testing material like; laser torch, heat gun, Test gas cylinders etc.



### FLOWMETERS & PROCESS TRANSMITTERS

- ▶ We supply all types of flow meters like; Coriolis flow meter, ultrasonic flow meter, metering skids etc.
- ▶ All types of pressure, Level and temperature transmitters.
- ▶ All types of pressure, level, flow & temperature gauges.



### TUBBINGS & FITTINGS

- ▶ We supply all types of Tubing's, fittings, flanges, DBB valves, Ball valves, Niddle valves etc. used for Oil & Gas application.
- ▶ All fittings are tailored made to meeting process ratings.
- ▶ We supply fittings in SS 316 which are off the shelf available most of the times. In addition, we supply, Inconel 625, Monel 400 etc. exotic material tubing's & fittings as well.



### INJECTION QUILL



### INJECTION QUILL WITH DBBQUILL



### DBB VALVES



# Manual Valves, Pipes & Accessories

## MANUAL VALVES

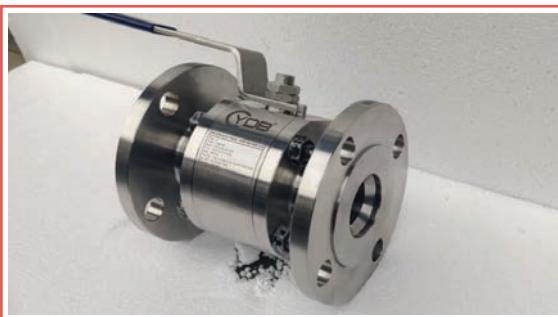


We supply all types of Manual valves for all services and applications

## REINFORCED THERMOPLASTIC PIPE (RTP)



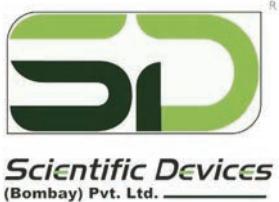
RTP pipes for locations with very high salinity in the underground water. We offer all types of RTP pipes and in all available sizes.



## OUR PARTNERS/ OEMS



**YDB VALVES LLP**, a pioneer manufacturing company having good experience in the designing and manufacturing of a new concept instrumentation Valves: Manifolds, Monoflanges, SBB & DBB Valves both in needle and ball types, Floating and Trunnion Design Ball Valves, strictly produced in according to the most stringent quality standards of safety and efficiency.



**Scientific Devices**  
(Bombay) Pvt. Ltd.

**SCIENTIFIC DEVICES** is an ISO 9001:2015, 14001:2015, CE Certified and DNV type approved company for ships, High Speed & Light Craft engaged in Designing, Manufacturing and Supply of Flow level, Temperature, Pressure Measurement, Sight glasses, pipe line strainers since past 27 years used for Chemical Process, Petrochemicals, Power generation, Oil & Gas, Pharmaceutical Companies, Ship building and Cement Industries etc.



**Trimteck** is an innovative ISO 9001-2015-certified company with over thirty years of engineering and manufacturing high-quality flow, pressure, and temperature control solutions for critical processes. Their products are currently helping customers safely improve quality, optimize throughput, and reduce emissions and costs across an array of industries in more than 50 countries



**Autocontrol Technologies s.r.l.** was established in 1994, in order to offer fresh solutions in the on-line instrumentation, process measurements and control automation fields, assisting the customer from design to installation with complete turn-key services. The company's core business areas are engineering, construction and installation of high technology process instruments for the oil, petrochemical, chemical and power industries.



**Tethys Instruments** is a leading global provider of gas and water on-line analysers for environmental applications. Headquartered in France, our distributors worldwide and us provide top-class service and instrumentation for environmental monitoring. Our technology based on UV spectroscopy offers unparalleled reliability and very low operating cost.

# Our Telecom Business Portfolio



## | SURVEILLANCE SYSTEM

Video surveillance is becoming an indispensable part of process plant safety, security and operations. Using this technology, mission-critical video feeds can now be delivered to the control room, office buildings and other areas in the plant in a highly flexible way.



Remote Video Monitoring provides a cost-effective and fast approach for process plant security surveillance and operations monitoring. The solution uses high data throughput mesh network technology to transfer video data. Additionally, the system can be deployed much faster and with reduced deployment complexity.

Using IEEE 802.11a/b/g/n standards-based technology, Nexalis International provides a fully secure, reliable communication link between the video cameras in your plant and the central control room.

Nexalis International is providing telecom system engineering and supply solutions and addresses client's security and control requirements for process industries, infrastructures, real-estate development and construction

Nexalis International carry out in-house "CCTV Coverage Study" as to identify preliminary number of CCTV cameras required on plot of any site.

Nexalis International also works hands-in-hands with 3rd party software companies who provide "CCTV Coverage Study" via 3D software, if client requires this.



## Benefits

### Increase plant safety

Video monitoring provides 24x7 surveillance of the plant and its operations and enables faster response and earlier detection of dangerous situations to workers.



### Comply with regulations

Digital video recording of visual data on flare, smoke stack or other emissions provides evidence of regulation compliance to local authorities. Video evidence of an emission's duration can reduce regulatory fines to the shortest period possible by showing when the emission started and ended.

# Video Monitoring Applications

## Plant Surveillance

To monitor plant fence lines, entrances, or remote tank farms for enhanced security or to comply with regulatory requirements.



## Workforce Safety

Video cameras can be installed to monitor workers in hazardous areas within the plant or in remote tank farms during normal operations to monitor their safety. Video images can be checked prior to sending a worker into a potentially hazardous or remote part of the plant to ensure that they are not being placed in danger.

## Process Monitoring

Live video feeds can augment the operator's control of volatile processes. Video analytics that monitor the pixel image of the camera can trigger process automation alarms to alert the control room operator to an abnormal situation based on video camera data.



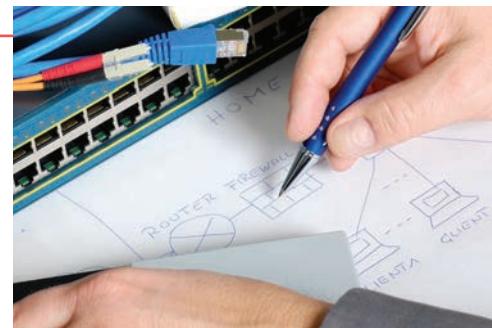


## Emissions Monitoring

Visually recorded information of emissions can serve as evidence of emissions for regulatory compliance and can reduce potential fines in the absence of other verifiable data. All the plant's video information can be recorded and stored on a central server that can store days, weeks or even months of video data depending on your needs or to comply with emissions regulations. Data can be permanently stored offline on optical disks if required.

## Network Design and Planning

Based on the site survey results and your video system requirements, Nexalis International engineers design the overall architecture including the detailed network infrastructure, network monitoring tools, and integrated



## Physical Network Installation Management

Engineers work with you to install the video cameras and network equipment based on the detailed network design.

## System Commissioning

The video recording system and network is brought online and commissioned onsite. Complete site acceptance testing is performed with your engineers.



## Components of Typical CCTV Monitoring System



### Video Equipment

The video images of all the cameras can be configured to support a variety of image resolutions and video frame rates which affects the bandwidth required to transmit the video stream and the amount of disk storage required to keep the video images online.

### Fixed IP Cameras

There are several color, high resolution video cameras to choose from that can be installed within the plant. Fixed cameras are required for video analytic capabilities and are less expensive than point-tilt-zoom (PTZ) cameras.

### Point-Tilt-Zoom Cameras

Typically housed in domed enclosures, these cameras offer the user the ability to visually survey a large area with a single camera.

### Digital Video Recorder (DVR) Server

All video images are centrally recorded, stored and served to other applications from the DVR server which is typically located on the plant's office network.

### Digital Display System

This workstation runs the video display software that enables the user to monitor many video feeds simultaneously. From this multi-video display, a single camera can be selected to enable the operator to change the camera's direction or to display historical video data.

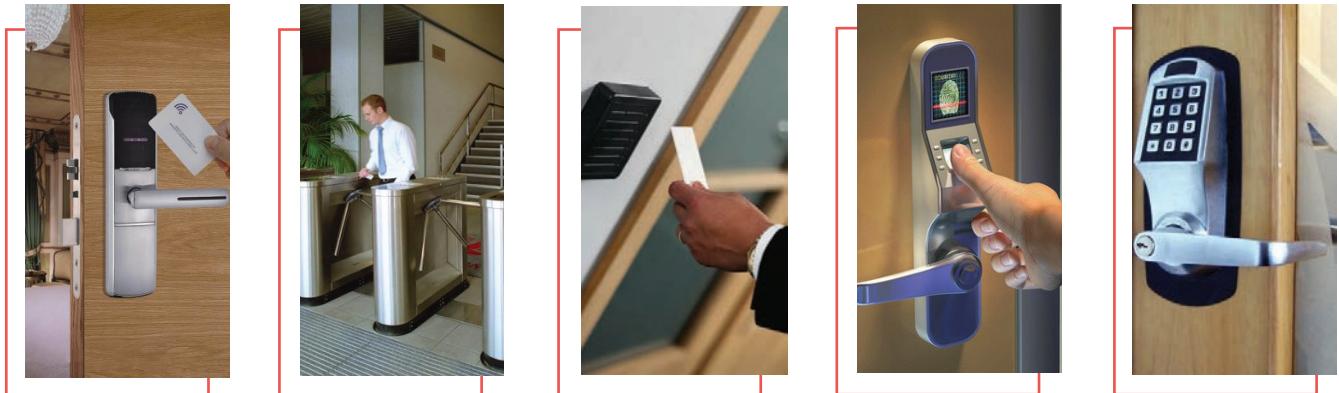
**Nexalis International** always follow the philosophy of achieving the customer satisfaction in their own terms and requirements. We are

- PTZ Box and Dome Cameras;
- IP and Analogue Cameras;
- Day and Night Camera;
- NVR's and DVR's;
- Full remote access of CCTV cameras;
- Video data storage and archiving.

# ACCESS CONTROL SYSTEM

Nexalis International provides a long range of products and solutions in Access Control systems, the access control system can also be used as the time attendance systems to automate the management in collection, and distribution of employee hours in real-time, making conventional employee time clocks and time tracking systems of the past. Management can create and enforce the simplest work and pay rules increasing timekeeping accuracy and reducing unwanted overtime throughout an organization.

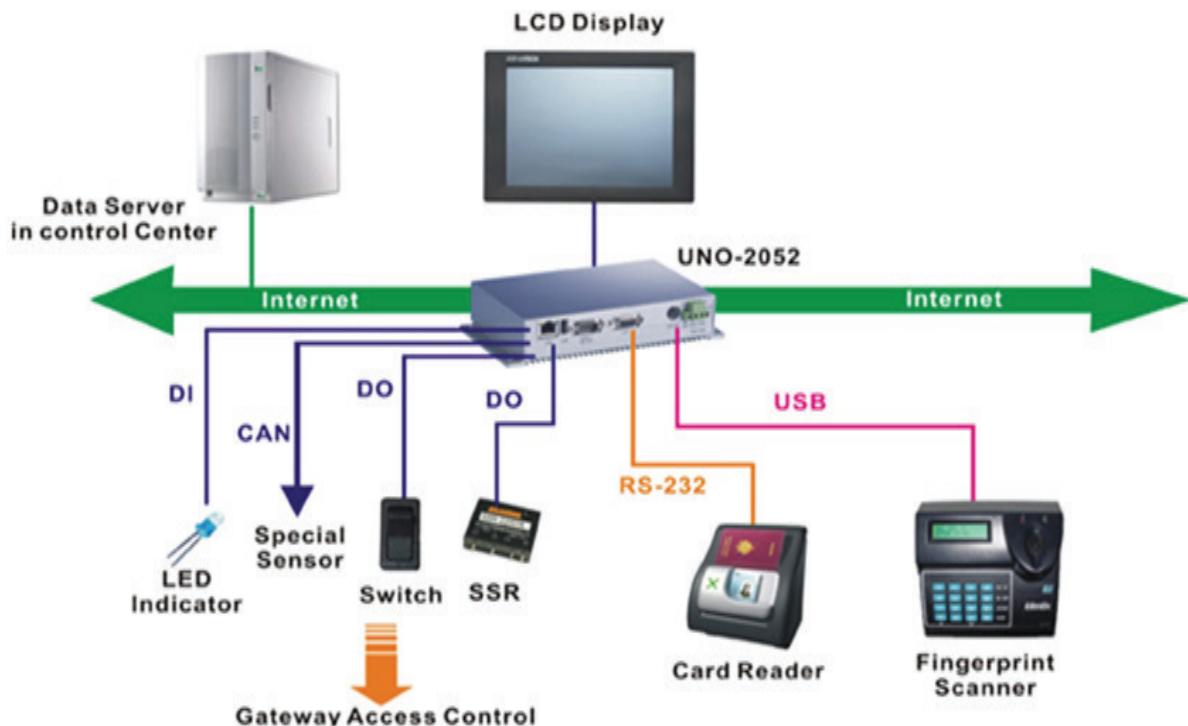
By collecting and calculating employee time clock information automatically and in real-time, time attendance system saves your payroll staff costly time, and significantly reduces the risk of payroll inflation errors.



Nexalis International provide a wide range of products and solutions for Access Control Systems. We offer different range of registration units like:

- ▶ Registration Unit with Fingerprint
- ▶ Proximity Readers
- ▶ Biometric Readers
- ▶ Face Readers

We offer integration of access control including Photo identification System, Vehicle Registration System, ID card printers, Time Attendance System etc.



# STRUCTURED CABLING

## Are you looking for hassle-free structured cabling services?

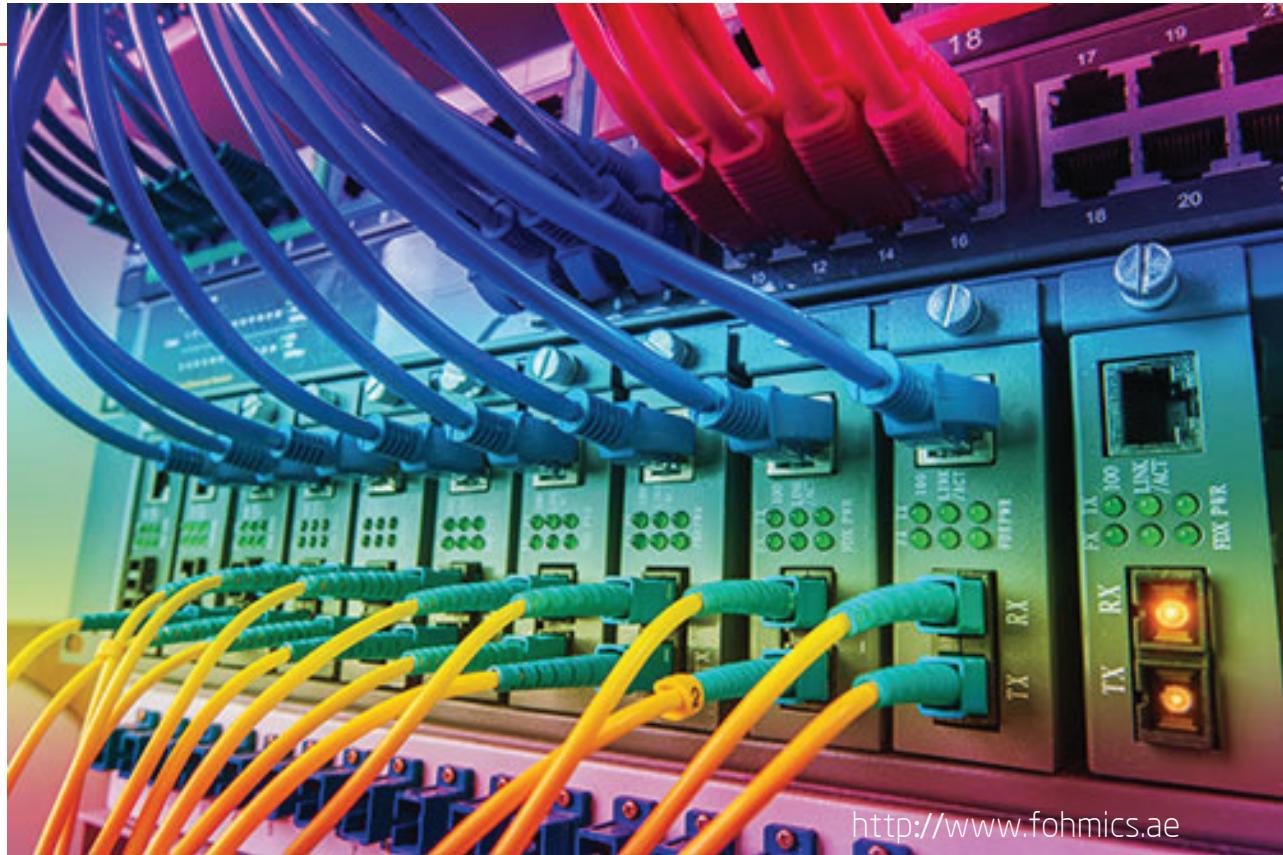
Nexalis International provides end-to-end cabling solutions to meet all of your needs, whether it's implementing a new LAN or WAN or upgrading cable structure. Our structured cabling service is your trusted source for voice and data cabling that meets your business communications needs.

Our friendly and expert technicians are available for all your cabling needs:-

- ▶ Structured network cabling
- ▶ Voice and data network installation
- ▶ Data rack and patch panel installation and termination
- ▶ VoIP phone systems
- ▶ Wireless network installation
- ▶ Cable certification and compliance testing
- ▶ Fiber optic termination and testing

A well-structured cabling system is the backbone of your network. Proper cabling is must if you want to save valuable time wasted on troubleshooting.

**"Let the Nexalis International experts handle your cabling projects – we'll put it all together seamlessly for you."**



## | OUR MAJOR CLIENTS



CHINA PETROLEUM PIPELINE ENGINEERING CO., LTD.



الشركة العمانيّة للصهاريج ش.م.م.  
OMAN TANK TERMINAL COMPANY L.L.C.



# Schlumberger



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**Thank You**