

# Orion Engineering Group Ltd

## Project references

### **The Chedi Oman**

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The Chedi is exclusive 21-acre resort ideal for business and leisure travellers alike located in Muscat Oman. The Chedi Muscat, managed by Singapore-based General Hotel Management (GHM), a global leader in the hospitality industry renowned for its exclusive and stylish hotels and resorts worldwide, provides the ultimate for some well deserved rest and relaxation in Oman.

Design, installation and Commissioning of the Fiber Optic Communication Unified Solution (FOCUS) based on Fiber To The Room (FTTX). Utilizing blown Fiber Optic Technology, the system covered approximately 85,000 square meters in order to cater for the Hotel needs. The FOCUS served as communication backbone for auxiliary systems in designed and installed by Orion.

- Fiber Optic Communication Unified Solution (FOCUS)
- Structured Cabling Network inside rooms
- Main Communication Data Room
- Data and Voice Communication systems based on IP
- WiFi Infrastructure inside rooms
- IP Telephony
- Utility Monitoring
- Internet and Telephony Billing System
- Room Management System
- Building Management System

### **Palm City Residence Libya**

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Design, installation and Commissioning of the Unified Communication Infrastructure (UCI) based on Fiber To The Home (FTTX). Utilizing blown Fiber Optic Technology, the system covered 171,000 square meters to catering for over 1000 communication Fiber channels. The UCI served as communication backbone for auxiliary systems in designed and installed by Orion.

- FTTX Unified Communication Infrastructure
- Structured Cabling Network for all office
- Main communication data room
- 19 Feeder Pillars
- Data and Voice Communication systems based on IP
- WiFi Infrastructure
- SMATV and CATV
- IPTV
- CCTV
- Access Control.
- Parameter Protection
- EPOS Network
- SCADA system for Water treatment, Sewage Treatment Plant and Electrical Sub Stations

Building Management System:

- HVAC
- Energy Management
- Lighting control

- Integration to Water Irrigation System

## National Oil Corporation Libya

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Supply and Installation of **Structured Cabling System** including Fiber Optic Link for NOC Data Department in Fellaah.

800 points **Structured Cabling System** and Installation of Active Equipment including Fiber Optic Connectivity between NOC Amana Building and NOC Main Building.

## Arabian Gulf Oil Company Libya

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System Design and supply of **Spread Spectrum Wireless Network** for 6 major oil fields.

Design and Installation of **CATV System** in 6 major oil fields with re transmission capabilities to cover radius of 5 sq.

Design, installation and commissioning of **Structured Cabling** and **Campus Fiber Optics system.** including Active Equipment and Commissioning of the computer system running under Unix Operating

System including remote connectivity through state-of-the-art equipment to communicate with desert oil fields.

## Al Wajba Motors Qatar

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Al Wajba Motors is the exclusive dealer for Bentley, Lamborghini, Bugatti and McLaren in Qatar. Orion Engineering was awarded this prestigious project and designed, installed and commissioned a multitude of services in the Al Wajba complex, including:

- The new Al Wajba Motors office building
- The separate state of the art showrooms for Bentley, Lamborghini, Bugatti and McLaren
- The Carusa Coffee Shop

This installation consisted of a Fiber optic Communication Unified Solution (FOCUS). Orion utilized the latest technologies in the market for all Low Voltage Solutions as described below:

- Structured Cabling Network with Fibre technology
- Complete Data Center solution
- Data and Voice Communication systems based on IP
- Wi-Fi Infrastructure
- SMATV System and Video Conferencing system
- Access Control and CCTV
- Intelligent Light Control Solution
- Audio Visual System
- Time and Attendance Solution
- Audio Background Music (BGM System)
- Video Conferencing system
- CCTV based on latest 180 & 360 deg technology

The new Carusa Coffee Shop, full of latest technologies many of which were installed first time

in the country, includes:

- iPadMenu for online ordering inside the restaurant
- Point of sales system with latest payment gateways
- Signage system offering latest adverts and promotions to its clientele

## **Ras-Lanuf Oil & Gas Company Libya**

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Design, installation and commissioning of **Structured Cabling System** including Active Equipment and Training for 4000 Network points, cabling of all RASCO Complex Buildings with CAT6 Cable and CAT7 industrial standard.

Design, Engineering and Commissioning of **Communication Systems** for the Telecom and IT Department of RASCONET Fiber Optic backbone to interconnect all RASCO buildings and facilities to be used for Data, Voice SCADA and Telemetry.

Design, supply and installation of Wireless **Control System** for Water reservoir tanks to monitor level and flow.

Supply and Installation of **Intrinsically Safe Radio** Communication System.

Design of the **Harbour Liquid Loading System** including Flow Computers Monitoring.

Design of IP Based Intrinsically Safe Refinery **Surveillance System** and Access Control to monitor all the refinery utilizing the installed RASCONET Fiber Optic Backbone.

Design of 25 Kilometre Fiber Optic Link to connect RASCO Complex with RASCO Township utilizing Ericsson SDH technology.

Design and Installation of **CATV System** Rasco Township with re-transmission capabilities to cover radius of 27 Km.