



**We specialize in
making your building
sustainable**

CTI - MEP Testing and Comissioning

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INTRODUCTION

CTI is a leading independent Testing and Commissioning company in the Middle East, renowned for providing comprehensive technical services to our clients. Our commissioning team consists of fully qualified, experienced engineers and specialists who are dedicated to delivering truly independent services.

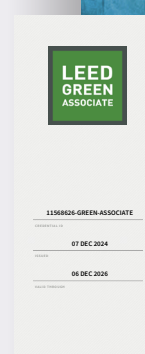
We conduct our testing and commissioning services in strict accordance with the following Commissioning Codes of Practice:

- Commissioning Specialist Association (C.S.A)
- Chartered Institute of Building Services Engineers (C.I.B.S.E)
- Building Services Research and Information Association (B.S.R.I.A)
- American Society of Heating, Refrigerating and Air Conditioning Engineers (A.S.H.R.A.E)
- Associated Air Balancing Council (A.A.B.C)
- National Environmental Balancing Bureau (N.E.B.B)

PROVIDED SERVICES

- MEP Commissioning Management
- HVAC Testing & Commissioning
- Electrical Testing & Commissioning
- Flushing & Chemical Cleaning
- Sound Level & Environmental Test
- Vibration Test
- Indoor Air Quality Test
- Duct Leak/Pressure Test
- Operating & Maintenance Manuals
- MEP System's Assessment Services
- Facility Maintenance

MEMBERSHIP



OCCUPATIONAL HEALTH & SAFETY



ISO 9001: 2015



MEP Commissioning Management

CTI provide fully independent Commissioning Management Services, offering:

- Design Commissioning Assessment
- System Installation and Commissioning-Ability Assessment
- Review and Support in Preparation of Commissioning Method Statements
- Pre-Commissioning and Commissioning Test Witnessing and Verification
- Managing, Coordinating, and Verifying Commissioning Activities for Building Services Systems and Equipment
- Production and Updating of Commissioning Activity Sheets (CAS)
- MEP Systems Final Inspections Coordination

The commissioning company plays a critical role in building projects by providing independent input that ensures all systems perform optimally. The commissioning management brings all parties together, coordinating systems for startup and commissioning.

They schedule trades to ensure all interconnections and integrations are considered and incorporated into the startup process. Appointing a commissioning management at the design stage allows for reviewing each system's commissionability, value engineering, and maintainability of the design solution.



HVAC Testing & Commissioning

The commissioning of building services is paramount to the success of any project, ensuring that system design and performance duties are achieved on every level. The experience and capabilities of our engineering staff fully meet these demands, and together with our unique training program, all types of commissioning projects fall within our wide range of expertise.

CTI is able to provide a complete, economical commissioning service for all types and sizes of building services systems. In this way, all aspects of building services commissioning can be coordinated and implemented as required. Our emphasis on positive management of commissioning ensures that we can provide an effective commissioning service within the agreed program and costs.

We naturally use CIBSE commissioning codes, BSRIA guidelines, and CSA guidelines to provide a code-guided service. The instrumentation used for testing and commissioning is regularly tested for accuracy and repeatability by the instrument manufacturers, and all instruments carry calibration certificates where necessary.

Pre-Commissioning and Setting to Work

- Air Systems Balancing and Regulation
- Water Systems Balancing and Regulation
- VAV System Testing
- Performance Testing
- Temperature and Humidity Analyses
- Environmental Checks and Sound Level Readings
- Duct Leakage Test.



Electrical Testing & Commissioning

CTI has the expertise and a team of specialist electrical technicians who perform cold and live testing of electrical services according to the IEE Regulations 18th Edition Standards. Our services include testing and commissioning of:

- LV Distribution
- Main Distribution Boards
- Sub-main Distribution Boards
- Motor Control Centers
- Distribution Boards



DUCT LEAK / PRESSURE TEST

Our Duct Leak/Pressure Test procedure is a meticulous process designed to assess the integrity and efficiency of HVAC ductwork systems. Beginning with thorough preparation, we seal all duct openings to ensure accurate testing conditions.

Our experienced technicians conduct a comprehensive inspection of duct seams, joints, and connections, utilizing advanced tools such as smoke to identify air leakage points with precision. Any leaks detected are promptly repaired using appropriate duct sealing materials.

Throughout the process, we maintain meticulous documentation, preparing detailed reports that outline our test procedures, results, and any corrective actions taken. Additionally, we provide recommendations for optimizing the performance and efficiency of the duct system, further enhancing its functionality and longevity.

By adhering to stringent testing protocols and utilizing advanced techniques, our Duct Leak/Pressure Test procedure ensures that HVAC ductwork systems meet the highest standards of performance, energy efficiency, and indoor air quality



Indoor Air Quality:

The quality of air within our working environment is extremely important ASHRAE following an extensive survey concluded that productivity can be improved by 10-25% by improving air quality. We provide air quality inspections to determine whether the property is suffering from Sick Building Syndrome (SBS) or Building Related Illness (BRI).

A building's air duct network act as its respiratory system. Dirt, dust, debris and microbial growth that accumulate inside of air ducts hidden from view and make it difficult for the building to (breathe) properly and function efficiently.



CODES AND PRACTICES WE FOLLOW:

The American Society of Heating, Refrigerating
and Air-Conditioning Engineers



The Building Services Research and Information
Association; "BSRIA's engineering.



The Commissioning Specialists Association.



The National Environmental Balancing Bureau
(NEBB)



The Chartered Institution of Building Services
Engineers.



The LEED® (Leadership in Energy &
Environmental Design) Green Building Rating
System.



National Air Duct Cleaners Association (NADCA)



PROJECTS



PROJECT:

Yas Bay Beach - Sector Ys2 - Abu Dhabi - UAE

CLIENT:

Miral Asset Management L.L.C.

CONSULTANT:

Ellisdon Middle EAST

CONTRACTOR:

Tornado General Contracting LLC



PROJECT:

Sharjah Sustainable City, Sharjah -UAE

CLIENT:

SHUROOQ | Diamond Developers.

CONSULTANT:

Jeet Construction



PROJECT:

Kalba Diwan Al Amiry - Extension & Kalba Department of culture - Extension - KALBA- Sharjah - UAE.

CLIENT:

Government of Sharjah

CONSULTANT:

Sarraj MEP Engineering Consultant

CONTRACTOR:

Fast Building Cont. Co. LLC



PROJECTS



PROJECT:

Sukoon 1 - 5 Buildings & Museum Facing Building
1& 2 AL Jada Development, Sharjah - UAE

CLIENT:

Aljada Development | ARADA

CONSULTANT:

DAR (Design and Architecture bureau)

CONTRACTOR:

M/s Al-Kharafi & Sons LLC

M/s Proton Electromechanical Contracting L.L.C



PROJECT:

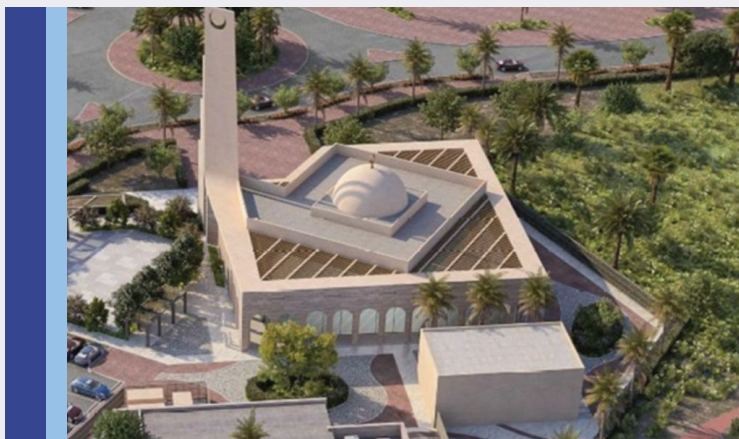
ST. Regis Residences - Dubai - UAE

CLIENT:

EMAAR

CONTRACTOR

Innovo Build



PROJECT:

Nad Al Dhabbi Mosque - Jubail Island Abu
Dhabi - UAE

CLIENT:

Jubail Island Investment Company

CONSULTANT:

APG Architecture & Planning Group

CONTRACTOR:

Mawarid Al Sharq Electromechanical



PROJECTS



PROJECT:

Mirfa Marine Rehabilitation Center

CLIENT:

Environment Agency

CONSULTANT:

Al Turath International Engineering Consultants LLC

CONTRACTOR:

Tornado General Contracting LLC



PROJECT:

Nad Al Dhabi Community Center-Jubail Island
Abu Dhabi - UAE

CLIENT:

Jubail Island Investment Company

CONSULTANT:

APG Architecture & Planning Group

CONTRACTOR

Mawarid Al Sharq Electromechanical



PROJECT:

(B+G+1) Residential Villa - Al Wasel - Dubai

CLIENT:

Mr. Kazim Abbas Vakil

CONSULTANT:

Khatib & Alami

CONTRACTOR:

MAC Electromechanical Engineering LLC



PROJECTS



PROJECT:

Avenue Residence 5 By NABNI -Dubai-UAE
(Proposed G+P+10+Roof Residential Building)

CLIENT:

Nabni Developments

CONTRACTOR:

Tiger Contracting Company LLC



PROJECT:

Cloud Project Tiger, Mixed Used Building on JVT
Dubai - UAE

CLIENT:

Tiger Group

CONTRACTOR:

Tiger Contracting Company LLC



PROJECTS



PROJECT:

G+3P+17+R, Residential & Commercial Building, Plot No 3460606, Dubai, UAE

CLIENT:

GINCO Properties

CONTRACTOR:

Carawan Electrical & Mechanical Works LLC



PROJECT:

Residential & Offices Building (UG/G+4P+17)
Al Barsha Fourth , Dubai, UAE

CLIENT:

Mr. Waleed Mohammad

CONSULTANT:

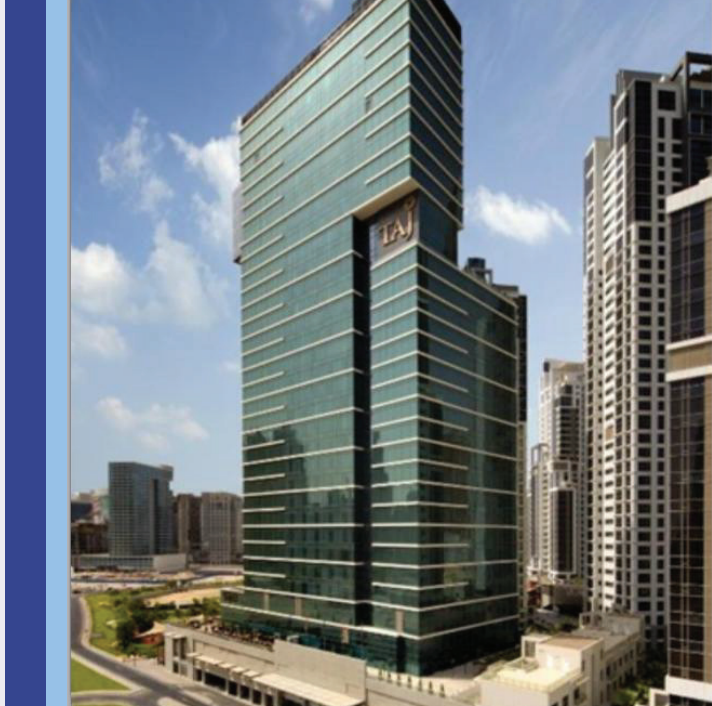
Kaizen Architectural & Engineering Consultants

CONTRACTOR:

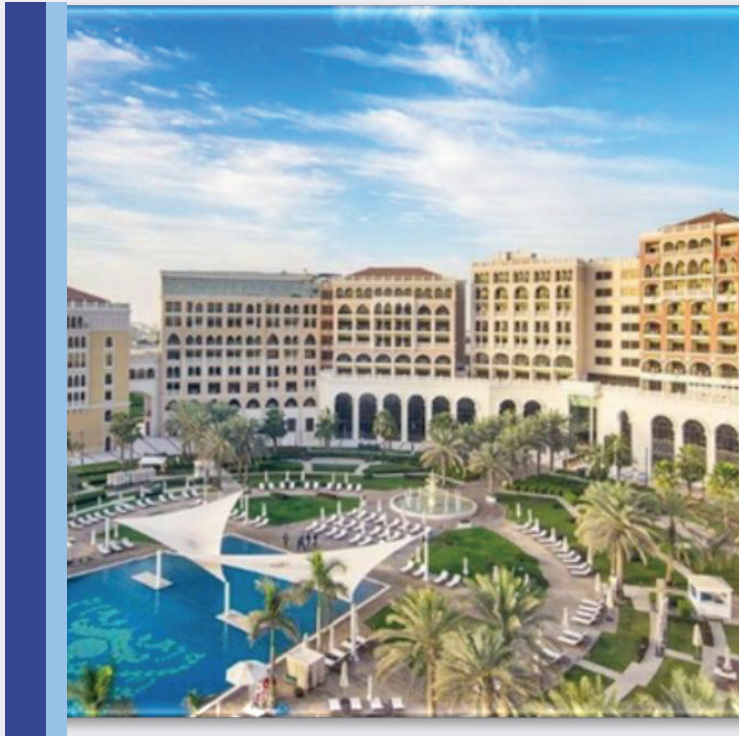
Tiger Contracting Company LLC



PROJECTS



PROJECT:
TAJ DUBAI -BURJ KHALIFA STREET -DUBAI-UAE
CLIENT:
TAJ HOTEL
CONTRACTOR:
IP INTERIOR



PROJECT:
Ritz Carlton -Abu Dhabi -UAE
(Guest Rooms Renovation)
CLIENT:
Ritz Carlton
CONTRACTOR:
Mouhajer International Design & Contracting LLC





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