

ICB group

ICBos sal offshore

2025 v2

International Consulting Bureau

شركة مدنية - Lebanon – since 2002

International Consulting Bureau sal

Lebanon – since 2009

ICBos sal Offshore

(for architectural & engineering consultancy services)

Lebanon – since 2012

ICB Vision

(for engineering consultancy services)

KSA – since 2014

شركة حدائة الهندسة المحدودة المسؤولية

Syria – since 2019

ICBos Abu Dhabi LLC

(engineering & contracting)

UAE – since 2025



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About Us

ICBos is a leading multi-disciplinary firm based in Beirut, Lebanon. Originally established in 2002 as a healthcare consulting group, it has since evolved into a full-fledged engineering consultancy, delivering services in the fields of Architecture, Structure, MEPF, Healthcare Planning, Medical Engineering, Facility Management, and Operation & Maintenance.

Our lead engineers bring more than 25 years of experience in Healthcare, Hospitality, Education, Military, Residential and Commercial projects across the Middle East, Africa & Gulf countries. They have also collaborated with leading local and international engineering firms based in the UK, USA, Germany, France, Australia, Saudi Arabia and the UAE.

ICBos delivers smart, high-performance engineering solutions that enhance building operations and systems. We partner with clients who value quality, aiming to build long-term relationships based on trust and results. Our focus is on leading the adoption of advanced technologies and management practices, driving sustainability and excellence in project delivery, and maintaining efficiency and profitability across all services.

Key Partners



IMAD ISSA

Holding a DEA in Biomedical Engineering in 1988 from ENSEEIHT University in Toulouse-France, Imad has been the co-founder of ICB group (ICB, ICBos) and CEO of ICB since 2002. Imad has also managed several projects including major hospitals requiring design, operations & maintenance services in the Middle East and the Gulf countries.



NAKHLE HUSSEINI

Holding a MS in Biomedical Engineering in 1988 from Ohio State University in Columbus, USA, Nakhle has been the co-founder of ICB group (ICB, ICBos) and CEO of ICBos since 2002. Nakhle has also managed several projects including major hospitals requiring design, operations & maintenance services in the Middle East and the Gulf countries.



DANY BITAR

Holding a BEng. in Electro-Mechanical engineering in 1995 from Concordia University in Montreal, Canada, Dany has managed multi-disciplinary services within contracting and engineering consultancy firms mainly in the Middle East and the Gulf countries. With skills development and leadership in project management, Dany joined ICB group in 2017 as Managing Partner.

Strategic Partners

UAE



ABDULRAZAK ALENAZI

Chairman of the Board / Group CEO
ARAD International Holding

As ICBos' strategic partner in the UAE, ARAD collaborates with us to expand our regional presence and support operations in engineering design, general contracting, and facility management & maintenance, including hospital and medical equipment maintenance. This partnership facilitates operational growth and market development, primarily across the Gulf countries and Africa.



Our Services

Engineering Design Services

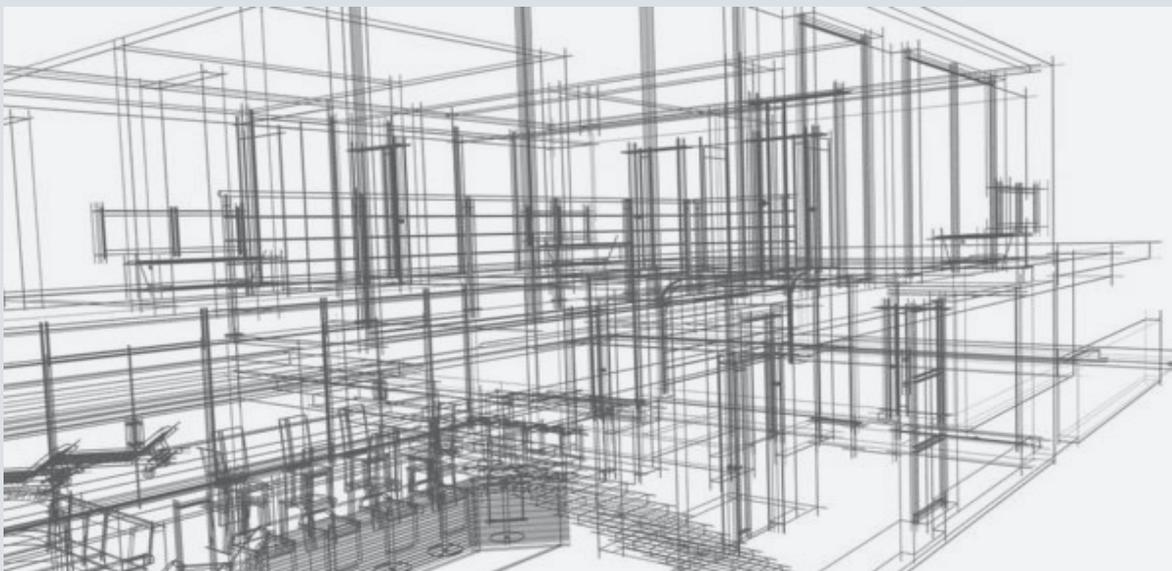
- Urban Design & Master Planning
- Architecture, ID & Landscaping
- Civil & Structure
- Mechanical & HVAC systems
- Public Health & Plumbing systems
- Electrical Power & Lighting systems
- Extra Low Voltage systems
- Telecommunication systems
- Fire Protection systems
- Roads & Infrastructure networks
- Transportation services



Project Management

- Project Management
- Design Management
- Cost Management

Facility Engineering Management Operation & Maintenance services



Our Services (cont'd)

Specialty Design Services



Interior Design

Geotechnical works

Solar & Hydropower

Power Plants

Energy & Systems Audits



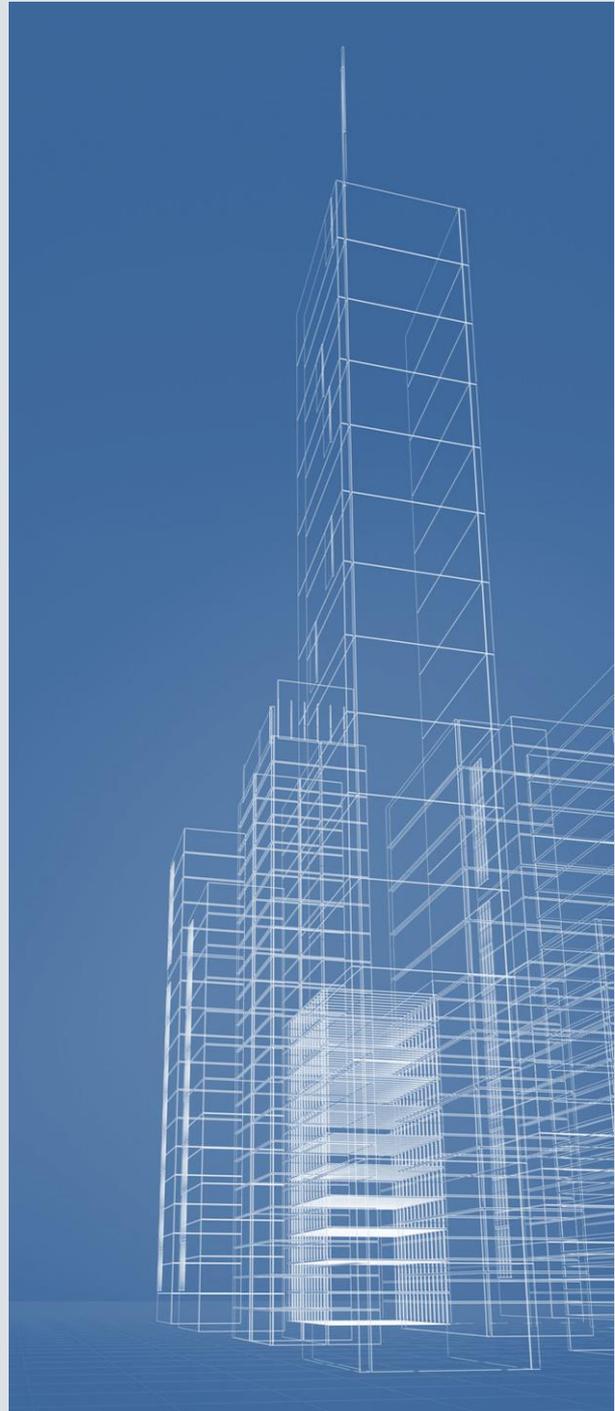
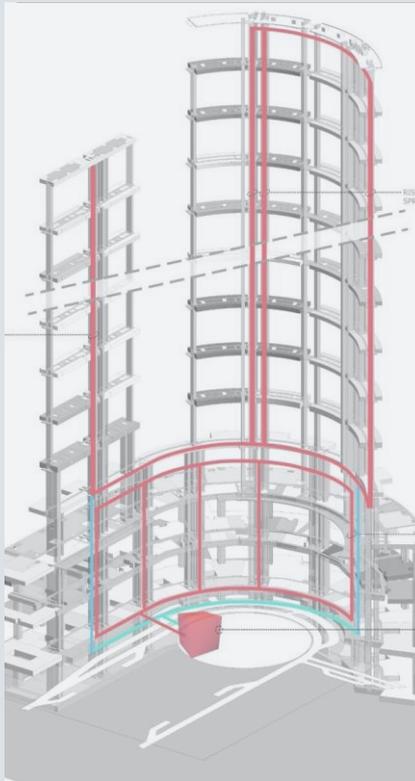
Our Services (cont'd)

Construction Services

Construction Management
Site Supervision
Design Review
Shop Drawings
Technical Due Diligence
Design Audits

Design Verification Services

3rd Party Design Review
Value Engineering



Our Services (cont'd)

Hospital Design Services

Project Management | Project Feasibility Study | Project Design Development
Supervision and Coordination | Facility Engineering Maintenance & Management
Biomedical Engineering Maintenance & Management

Hospital Operational Services

Operation and Management Plan | Operational Efficiencies
Accreditation | Standards & Guidelines



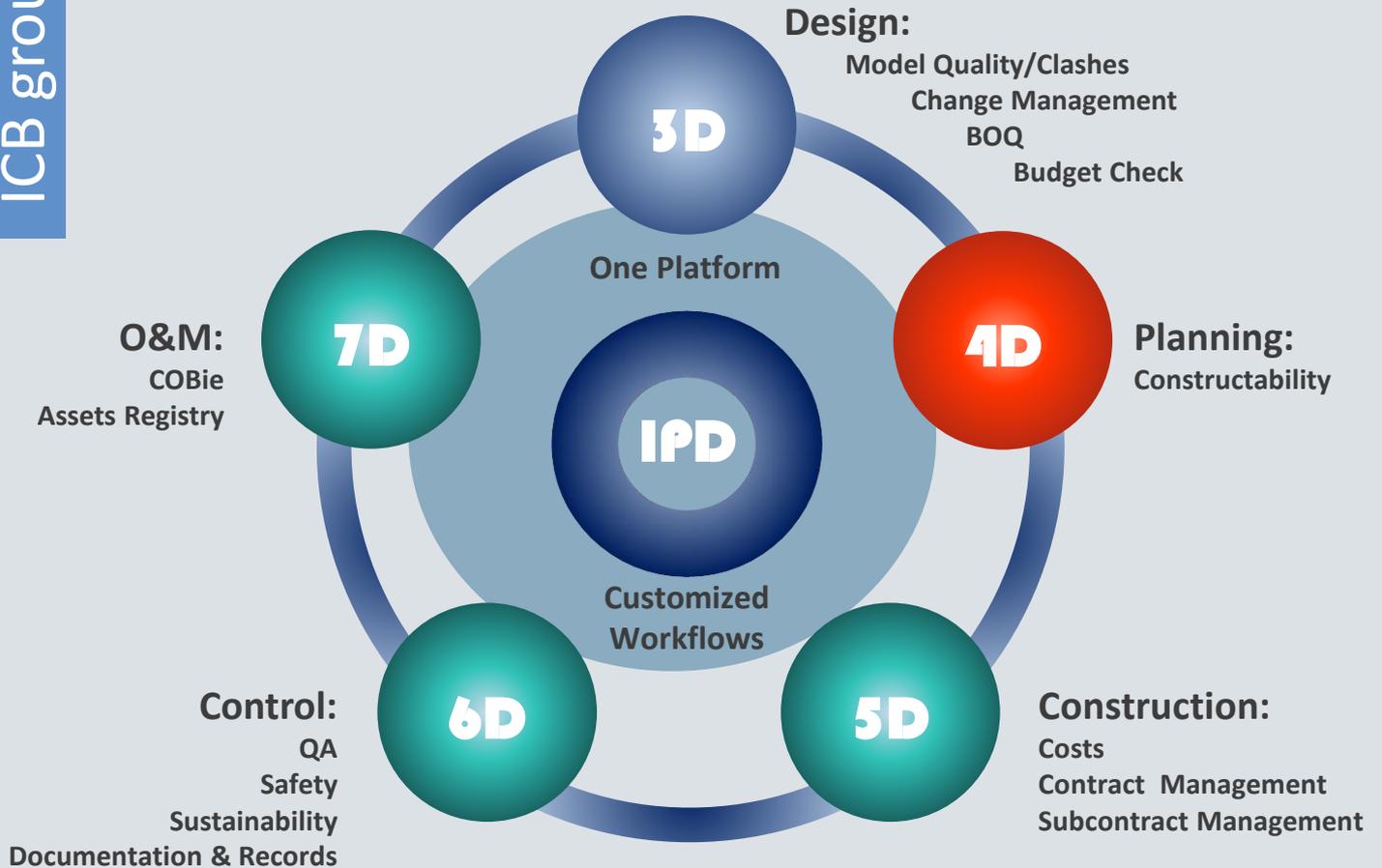
Our Services (cont'd)

BIM Services

Full 3D to 7D

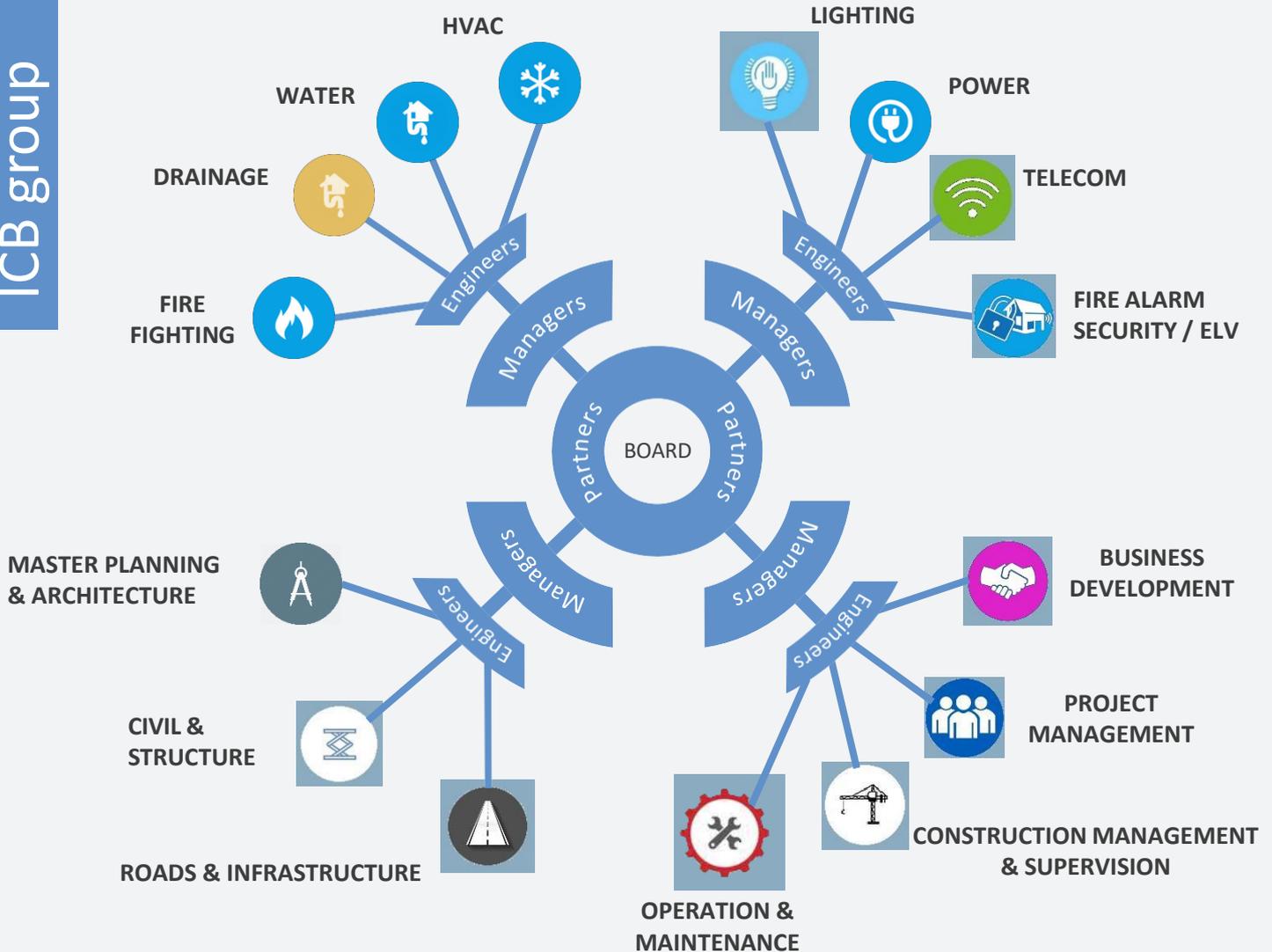
Digital construction & Operation

Integrated Project Delivery



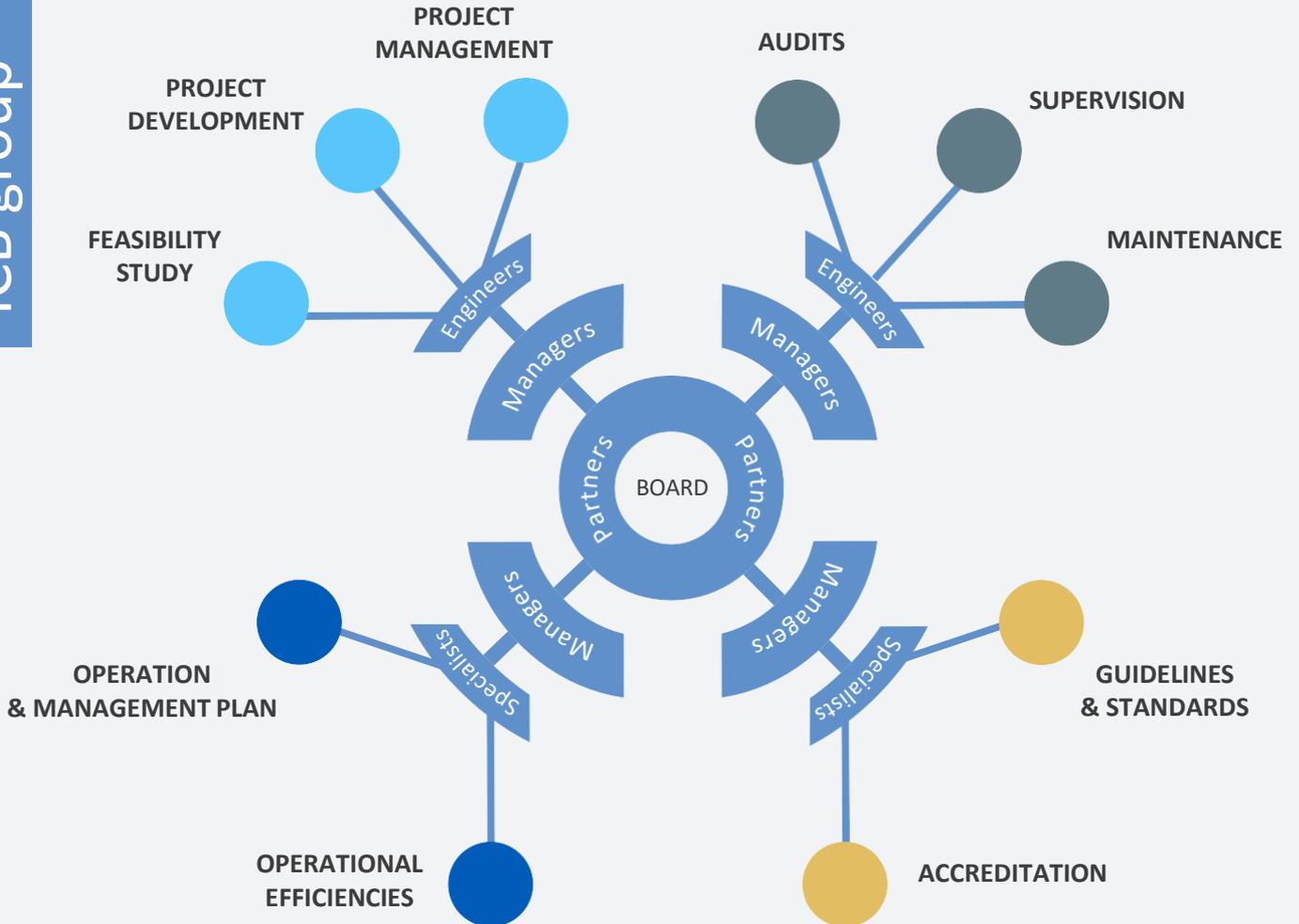
Our Structure

Engineering & Construction Services



Our Structure (cont'd)

Healthcare Services



Pre-qualifications, Registrations & Certificates



ISO 9001:2015



Order of Engineers & Architects - Beirut (Lebanon)



Council for Development and Reconstruction - CDR (Lebanon)



Lebanese Red Cross (Lebanon)



United Nations (UNGM / UNIFIL / UNDP)



Saudi Council of Engineers (KSA)



British Aviation Engineering - BAE Systems (KSA)



National Project Management Organization - MASHROAT (KSA)



The Red Sea Development Company – TRSDC (KSA)



Diyar Al Muharraq - Real Estate Developer/investor (Bahrain)



Kuwait Fund For Arab Economic Development (Kuwait)



Nesma & Partners Consultant Portal



Islamic Development Bank Consultant Portal



NEOM



Association for the Advancement of Blood & Biotherapies
(American Association of Blood Banks)

Major Clients

- **Ministry of Health (Lebanon)**
- **Council for Development and Reconstruction - CDR (Lebanon)**
- **Lebanese Armed Forces (Lebanon)**
- **Lebanese Red Cross (Lebanon)**
- **Royal Saudi Air Force / British Aviation Engineer - BAE (KSA)**
- **Royal Saudi Naval Forces / British Aviation Engineer - BAE (KSA)**
- **Ministry of Interior (KSA)**
- **El Seif Engineering & Contracting (KSA)**
- **Al Mabani General Contractors (KSA & Lebanon)**
- **Arabian Gulf University Bahrain (Bahrain)**
- **SaudConsult (KSA)**
- **Rafik Hariri University Hospital (Lebanon)**
- **Lebanese University (Lebanon)**
- **Kuwait Fund For Arab Economic Development (Kuwait)**
- **Saudi Central Board for Accreditation of Healthcare Institutions (KSA)**
- **Associated Consulting Engineering - ACE (Lebanon)**
- **Ministère de la Santé, de la Population et de la Réforme Hospitalière (Algérie)**
- **Nesma & Partners (KSA)**
- **Redco International (Qatar)**
- **Rawabi Specialized Contracting (KSA)**

Major Projects & Staff Experience

Military Projects

- Royal Saudi Naval Force - Technical Institute of Naval Studies (Dammam, KSA)
- Royal Saudi Air Force - The Hawk T-165 Modernization Facilities (Batch 02) at King Faisal Air Force Base (Tabuk, KSA)
- The Custodian of Two Holy Mosques King Abdullah Bin AbdulAziz (Kap2/C2), in KSA for Developing The Security Headquarters – MOI – Phase 2-C
 - Abha Site: Public Security Training City Class B (91 bldgs.)
 - Abha Site: Special Emergency Forces Camps Class B (62 bldgs.)
 - Abha Site: Medical Center (11 bldgs.)
 - Najran site: Public Security Training City Class C (80 bldgs.)
 - Najran site: Special Emergency Forces Camps Class A (74 bldgs.)
- Royal Saudi Air Force - The Hawk T-165 Facilities (Batch 01) at King Faisal Air Force Base (Tabuk, KSA)
- Dirab Military Airbase - SANG III for the National Guard (Riyadh, KSA)

Master Planning & Infrastructure Projects

- King Abdullah Healthcare City for the Security Forces - MOI (Riyadh, KSA)
- Jabal Omar Development – Infrastructure Works (Makkah, KSA)
- Dirab Military Airbase - SANG III for the National Guard (Riyadh, KSA)
- Beit Misk – Infrastructure Works (Metn, Lebanon)
- Musaffah Gardens Development - Hotel and Residential Apartments (Abu Dhabi)

International Organizations Projects

- Lebanese Red Cross BTS, Baabda Central Blood Bank (Lebanon)
- Lebanese Red Cross BTS, Antelias Center (Lebanon)
- Facebook New Offices (Lagos, Nigeria)

Standards & Guidelines Projects

- Health Facility Guidelines for CBAHI / Ministry of Health (Kingdom of Saudi Arabia)

Healthcare, Architectural, Structural & MEPF Projects

- Medical Wellness Resort (Amaala, KSA)
- Spine Precast Concrete Facility (NEOM, KSA)
- King Abdullah Medical City - KAMC (Bahrain)
- King Abdullah Healthcare City for the Security Forces (Riyadh, KSA)
- National Health Laboratories (Qatar)
- MEHCC Middle East Hospital & Cardiac Center (Riyadh, KSA)
- Perfect Healthcare Services Hospital (India)
- Bellil Hospital (Algeria)
- Ain-Merane Hospital (Algeria)
- Military Hospital For the Yemeni Armed Forces (Sana'a-Yemen)
- Beni Messous Hospital (Algeria)
- E.P.H. Hassan Badi (Algeria)
- Selim Zmirli Hospital (Algeria)
- International Medical Center (Syria)
- ORDI Primary Diagnostic Center for the Armed Forces. (Sana'a-Yemen)
- Jezzine Governmental Hospital (Lebanon)
- Halba Governmental Hospital, Caza of Akkar (Lebanon)
- Meis-El-Jabal Governmental Hospital (Lebanon)
- Sheif Khalifa Bin Zayed Hospital (Lebanon)
- Zahle Governmental Hospital (Lebanon)
- Saida Governmental Hospital (Lebanon)
- Marjeyoun Governmental Hospital (Lebanon)
- Middle East Institute of Health, Bsalim (Lebanon)
- Prince Abdulaziz Bin MUSAAD General Hospital (Ar'ar, KSA)
- Nabatieh Governmental Hospital (Lebanon)
- Tannourine Governmental Hospital (Lebanon)
- Rashaya Governmental Hospital (Lebanon)
- Additional Equip. for Rashaya, Tannourine, Sir-el- Denieh & Nabatieh Hospitals (Lebanon)
- Hotel Dieu de France (Lebanon)
- Siblino / Hermel Governmental Hospitals (Lebanon)
- Hrajel Governmental Health Care Center (Lebanon)
- Bechary Governmental Hospital (Lebanon)
- Baalbeck / Dahr El Bashek / Shahar El Gharbi / Tripoli Governmental Hospitals (Lebanon)

Technical Due Diligence & Design Audits Projects

- Hammoud Hospital University Medical Center - HHUMC (Saida, Lebanon)
- IMC Hospital - Jeddah (Jeddah, KSA)
- Al Mashfa Hospital - Jeddah (Jeddah, KSA)

Healthcare & Facility Maintenance Projects

- Lebanese University Hadath Campus (Lebanon)
- Red Cross Blood Transfusion Centers (Lebanon)
- Rafik Hariri University Hospital (Lebanon)
- Dahr El Bashek (Lebanon)
- Halba Governmental Hospital (Lebanon)
- Hotel Dieu de France (Lebanon)
- National Institute of Health (Lebanon)

Solar & Hydropower Energy Projects

- PPA Solar projects (in the process) in Sao Tomé & Brazil

Other Major Projects

- Mussallah of Jabal Omar Development (Makkah, KSA)
- City Upscale Hotel, Dbayeh Waterfront (Lebanon)
- Malga Residential Complex (Riyadh, KSA)
- Badaro Gardens comprising 3 residential blocks (Beirut, Lebanon)
- Musaffah Gardens Development - Hotel and Residential Apartments (Abu Dhabi, UAE)
- Saraya Tower R16 & Danet Tower Complex (Abu Dhabi, UAE)
- Saraya Hospital (Abu Dhabi, UAE)
- Abu Dhabi Trade Center – Ext. 3 for Hotel / Services Apartments & Offices (UAE)
- Apex Complex comprising Hotel Tower & Office Tower Abu Dhabi (UAE)
- New American School of Doha (Doha, Qatar)
- Clemenceau Medical Center (Beirut, Lebanon)

Project Information

Date

Consulting Services Performed



Royal Saudi Naval Force, Technical Institute of Naval Studies *Facilities Upgrade Works, (Dammam, KSA)*

Client: Al Mabani General Contractors (KSA)

Works' Volume: Confidential

Works Value in US\$: Confidential

ICBos

Aug 2018
till
Aug 2020

- Architectural / MEPF/ Structural design review up to Design development (DD) for 9 buildings (confidential) including
- Flood Risk Assessment
- Fire Life Safety Risk Assessment



Royal Saudi Air Force, The Hawk T-165 King Faisal Air Force Base, Tabuk (Batch 02) Kingdom of Saudi Arabia

Client: El Seif Engineering & Contracting (Riyadh, KSA)

Works' Volume: Confidential

Works Value in US\$: Confidential

ICBos

Jan 2018
till
June 2020

- Architectural / MEPF/ Structural design up to Design development (DD) for 6 buildings (confidential) including Apron
- Detailed BOQ



The Custodian of Two Holy Mosques King Abdullah Bin Abdul Aziz for Developing the Security Headquarters - MOI - Phase 2-C (Kap2/C2) "Abha and Najran Sites" Kingdom of Saudi Arabia

Client: ABV Rock Group Ltd. Riyadh, KSA

Works' Volume: 318 buildings TBA 477,954m²

Works Value in US\$: Confidential

ICB

Jan. 2015
Till
March 2018

1. Architectural drawings
2. Space allocation & circulation
3. 1/100 loaded drawing & 1/20 elevation/details
4. Electrical, sewage & HVAC drawings
5. BOQ, budget estimation & detailed specifications: electromechanical/medical equipment & furniture
6. Room & door schedule
7. Elaboration of tender / purchase / construction documents

Abha Site Details:

Public Security Training City Class B Site area: 1,017,362 m2
TBA 116,994 m2
91 buildings

Special Emergency Forces Camps Class B

Site area: 582,893 m2
TBA 110,564 m2
62 buildings

Medical Center Site area: 9,370 m2
TBA 6,397m2
11 buildings

Najran Site Details:

Public Security Training City Class C Site area: 739,888 m2
TBA 88,188 m2
80 buildings

Special Emergency Forces Camps Class A

Site area: 656,172 m2
TBA 155,810 m2
74 buildings

Project Information

Date

Consulting Services Performed



Royal Saudi Air Force, The Hawk T-165 King Faisal Air Force Base, Tabouk (Batch 01) Kingdom of Saudi Arabia

Client: El Seif Engineering & Contracting (Riyadh, KSA)

Works' Volume: Confidential

Works Value in US\$: Confidential

ICBos

June 2015
till
January 2016

MEPF design up to Design development (DD) for 6 buildings (confidential)



Dirab Military Airbase (SANG III), Riyadh, Kingdom of Saudi Arabia

Client: NESMA & Partners Contracting

Works' Volume: Confidential

Works Value in US\$: Confidential

Dany Bitar, Sr. Projects Manager @RELK&P

2014
till
2017

Design Engineering and Development for:

1. General Site Works and Battalion area
2. Airfield including design for:
 - Apron
 - Landing Lanes
 - Taxiways
 - Lighting, etc.
3. New Buildings including Architecture, Structure and MEPF design for:
 - Institute HQ
 - Educational Building
 - Training Wing HQ
 - Aviation Maintenance Workshops

Project Information

Date

Consulting Services Performed



King Abdullah Health Care City Riyadh - Kingdom of Saudi Arabia

Client: Security Forces KSA. Contractor ABVRock grp.

Works' Volume: New Health Care City, 1660 Beds Hospital (520,000m² BUA), 2.5 million m² site area, 35 utility buildings (200,000m² BUA).

TBA 1,800,000 m².

Works Value in US\$: 4,500,000,000 (civil & equipment)
ICBos & TAHPI

Jan. 2014
till
2017

Design Engineering and Development for:

- Master Plan
- Site Utilities (Solar, MEP plants, etc.)
- Site Landscaping
- Civil & Roads
- Tunnel & Galleries
- Infrastructure Networks



Jabal Omar Development – Infrastructure Works Makkah, Kingdom of Saudi Arabia

Client: NESMA & Partners Contracting

Works' Volume: 1.4 km Underground Utility Galleries

Works Value in US\$: 260,000,000 (construction)

Dany Bitar, Sr. Projects Manager @RELK&P

2011
till
2014

Design Engineering and Development for:

- Master Plan for roads above galleries
- Structure for underground galleries
- MEPF for technical rooms, plants, tanks, etc.
- Civil Design for 1.4km of Roads, Tunnels and Overpasses.
- Infrastructure design for main utility networks including potable & fire water, storm water, sewage and gray water lines, low voltage network, street lighting, low current network including Fire Alarm, Public Address, Access, Control etc.



Malga Residential Complex Riyadh, Kingdom of Saudi Arabia

Client: Urjuan Property

Works' Volume: 18,000 m²

Works Value in US\$: 18,500,000 (construction)

Dany Bitar, Sr. Projects Manager @RELK&P

2011
till
2013

Design Engineering and Development for:

- Master Plan
- Civil & Roads
- Landscaping
- Infrastructure



Dirab Military Airbase (SANG III), Riyadh, Kingdom of Saudi Arabia

Client: NESMA & Partners Contracting

Works' Volume: Confidential

Works Value in US\$: Confidential

Dany Bitar, Sr. Projects Manager @RELK&P

2014
till
2017

Design Engineering and Development for:

General Site Works and Battalion area including

- Master plan
- Infrastructure networks
- Landscaping
- Civil and road design
- Street lighting, etc.

Project Information

Date

Consulting Services Performed



**Beit Misk – Infrastructure Works
Metn, Lebanon**

Client: Emaar

Works' Volume: 650,000 m² residential development

Works Value in US\$: 25,000,000 (construction)

Dany Bitar, Sr. Projects Manager @RELK&P

2010
till
2013

Design Engineering and Development for:
- Infrastructure services including Storm Network, Sewage Network, Sewage Treatment Plant, Water Supply, Irrigation, Power (MV, LV), Power Plant, Street Lighting, Telecommunication Network, Fiber Optic Network and Roads.



Musaffah Gardens Development comprising
Hotel and Residential Apartments
Abu Dhabi, United Arab Emirates

Client: ROYA

Works' Volume: 30,000 m²

Works Value in US\$: 110,000,000 (construction)

Dany Bitar, Sr. Projects Manager @RELK&P

2008
till
2012

Design Engineering and Development for:
- Master Plan
- Civil & Roads
- Landscaping
- Infrastructure

Project Information

Date

Consulting Services Performed



BTS Baabda New Central Blood Bank - Lebanon

Client: Lebanese Red Cross

Works' Volume: 400 blood units/day

Works Value in US\$:

ICB

Oct. 2022
till
Present

1. Design of services covering Medical planning, Architecture, Structure & MEP
2. Medical equipment
3. Cost estimate & BOQ
4. Supervision services



BTS Antelias Centre - Lebanon

Client: Lebanese Red Cross

Works' Volume: 200 blood units/day

Works Value in US\$:

ICB

May 2021
till
June 2023

1. Re-design of services covering Medical planning, Architecture & MEP
2. Medical equipment
3. Cost estimate & BOQ
4. Supervision services



Facebook New Offices (Lagos, Nigeria)

Client: ITB Nigeria

Works' Volume:

Works Value in US\$:

ICB

Jan. 2021
Till
May 2021

1. Shop drawings for MEP services
2. Redesign of MEP services (as needed)
3. MEP calculations
4. Review of MEP Material submittals

	Project Information	Date	Consulting Services Performed
	<p>Kingdom of Saudi Arabia Health Facility Guidelines</p> <p>Client: CBAHI / Ministry of Health</p> <p>Works' Volume: confidential</p> <p>Works Value in US\$: confidential</p> <p><i>ICB</i></p>	<p>2018 till 2019</p>	<p>Consulting services for: Preparation of guidelines for planning, briefing, design & construction of healthcare facilities</p>

Project Information

Date

Consulting Services Performed



**Medical Wellness Resort
Amaala (RSG), KSA**

Client: Rawabi Specialized Contracting (RSC)
In JV with Gama Construction

Works' Volume: 41,000 m2 BUA, 74 Keys

Works Value in US\$: N/D

ICBos, ICB Vision

Mar. 2024
till
Jan. 2025

1. Value Engineering Deliverables including VE potentials, options, solutions, comparisons, outputs and variations.
2. Structural Design revisions.
3. Structural models review & validation.
4. IFC Design update for structural works including Revit models, BOQ and Drawings.



**Spine Precast Concrete Facility
NEOM (Bechtel), KSA**

Client: El Seif Engineering Contracting Co. Ltd.
In JV with Redco International W.L.L

Works' Volume: 583,000 m2 BUA including 21 Facility Buildings, Roads and Open Stacking Yard with cranes

Works Value in US\$: N/D

ICBos, ICB Vision

Feb. 2024
till
Present

1. Design Verification services for Architecture (master plan & buildings), Structure (buildings, equipment/crane foundations, concrete batching plant foundations, perimeter fence, underground tanks), MEP design (buildings) and Infrastructure networks (foul water, potable water, irrigation, ELV, Fire Alarm, HVAC, firefighting, fire alarm, public address, Communication & Security, External Power, External Lighting, CCTV, Irrigation network and External Steam piping)
2. Design Services for Fire Life Safety design for entire facility, Traffic Study (including pavement design, turning radius / swept path analysis, traffic signage design), Wayfinding signage design and Storm water network design.

Project Information

Date

Consulting Services Performed



**King Abdullah Medical City - KAMC
Bahrain**

Client: Arabian Gulf University

Works' Volume: New Medical City, complete design of 250 beds for first phase

Works Value in US\$: 260,000,000 (civil & equipment)

ICBos, TAHPI & Saudi Consult

Feb. 2015
till
May 2021

1. Medical equipment planning
2. Electromechanical requirements
3. Medical equipment drawings
4. Schematic design up to Construction
5. Medical equipment procurement services
6. Supervision services



**King Abdullah Health Care City
Riyadh - Kingdom of Saudi Arabia**

Client: Security Forces KSA. Contractor ABV Rock grp.

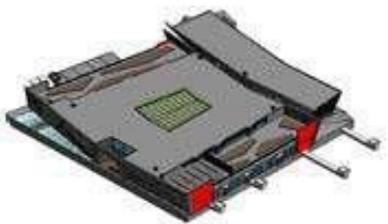
Works' Volume: New Health Care City, 1660 Beds Hospital (520,000m² BUA), 2.5 million m² site area, 35 utility buildings (200,000m² BUA).

TBA 1,800,000 m².

Works Value in US\$: 4.5 billion (civil & equipment)
ICBos & TAHPI

Jan. 2014
till
2017

1. Design of services for all phases (Master plan, SD, DD, CD) covering architecture, MEP, structure civil including soft and hard landscaping & all engineering subspecialties
2. Medical equipments planning
3. Electromechanical requirements
4. Medical equipments drawings
5. Schematic design up to construction documents for interior architectural layout and interior design for administration building 9,000m² and data center 12,000m²



**National Health Laboratories
Qatar**

Client: Focus Design Partners (FDP)

Works' Volume: Design of lab equipment for national health laboratories (50,000m²)

Works Value in US\$: 40,000,000

ICBos

2015
Till
2016

1. MEP
2. Space allocation
3. Medical equipment specifications



**Middle East Hospital & Cardiac Center, MEHCC
Riyadh - Kingdom of Saudi Arabia**

Client: Philips Health Care Saudi Arabia Limited

Works' Volume: 200 beds

Works Value in US\$: 200,000,000

ICBos

Sept. 2015
till
Dec. 2015

1. Provide guidance, local codes and regulations
2. Structural & MEPF
3. Engineering medical equipment plan

Project Information

Date

Consulting Services Performed

Perfect Healthcare Services Hospital, Calicut India

Client: KEF Dubai

Works' Volume: New Hospital, complete design of 250 beds

Works Value in US\$: 70,000,000 (civil & equipment)

ICB & TAHPI

Aug.2013
till
May 2014

1. Medical equipments planning
2. Medical equipments review and detailed specifications
3. Electromechanical requirements
4. Medical equipments drawings

Bellil Hospital Algeria

Client: Direction de la Santé et de la Population de Laghouat, Algérie

Works' Volume: New hospital, complete design of 60 beds with supervision

Works Value in US\$: 13,000,000 (civil)

ICBss & ICB

Nov. 2010
till
2013

1. Architectural drawings
2. Space allocation & circulation
3. 1/100 loaded drawing & 1/20 elevation/details
4. Electrical, sewage & HVAC drawings
5. Medical gases drawings, loaded drawings: electromechanical/medical & furniture
6. BOQ, budget estimation & detailed specifications: electromechanical / medical equipment & furniture
7. Room & door schedule
8. Elaboration of tender/purchase/construction documents.
9. Supervision over construction

Ain-Merane Hospital Algeria

Client: Direction de la Santé et de la Population de Chief, Algérie

Works' Volume: New hospital, complete design of 60 beds with supervision

Works Value in US\$: 14,500,000 (civil)

ICBss & ICB

Jan. 2009
Till
Dec. 2010

Same as above

Military Hospital for the Yemeni Armed Forces Sana'a - Yemen

Client: TEAM International, Beirut (Yemeni Governmental Fund)

Works' Volume: Rehabilitation of 300 beds

Works Value in US\$: 15,000,000 (equipment)

ICB

Jan.2004
till
July 2004

- Consultancy services for revision of concept of the hospital with complete redesign of the specialized services.
Creation of tender documents, bill of quantities, detailed drawings with equipment layout and loaded drawing with electromechanical requirement.
Specifications and budget estimation.

Project Information

Date

Consulting Services Performed



**Beni Messous Hospital
Algeria**

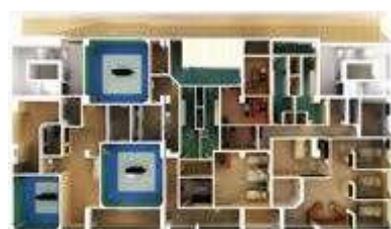
Client: Ministère de la Santé, de la Population et de la Reforme Hospitalière, Algérie

Works' Volume: Rehabilitation of General Surgery Dept, 3 operating rooms, 4 beds Intensive Care, 1 CSSD and 35 beds for hospitalization

Works Value in US\$: 2,765,145
ICBss & ICB

Dec. 2009
Till
June 2010

1. Architectural drawings
2. Space allocation & circulation
3. 1/100 loaded drawing & 1/20 elevation and details
4. Electrical, sewage & HVAC drawings
5. Medical gases drawings, loaded drawings: electromechanical/medical & furniture
6. BOQ, budget estimation & detailed specifications: electromechanical/medical equipment & furniture
7. Room & door schedule
8. Elaboration of tender/purchase/construction documents
9. Supervision over construction



**E.P.H. Hassan
Badi Algeria**

Client: Ministère de la Santé, de la Population et de la Reforme Hospitalière, Algérie

Works' Volume: Rehabilitation of OB/GYN Surgery Dpt, 3 operating rooms and 4 beds Intensive Care

Works Value in US\$: 2,000,000 (civil)

ICBss & ICB

April 2009
till
Oct. 2009

Same as above



**Selim Zmirli
Hospital Algeria**

Client: Ministère de la Santé, de la Population et de la Reforme Hospitalière, Algérie

Works' Volume: New design of an extension for an operation complex (3000m² of 12 operating rooms, 18 recovery beds and CSSD

Works Value in US\$: 2,816,253 (civil)

ICBss & ICB

April 2008
till
Dec. 2008

Same as above



**International Medical Center
Syria**

Client: Associated Consulting Engineers (ACE)

Works' Volume: New hospital, complete design of 150 beds

Works Value in US\$: 120,000,000 (civil) & 30,000,000 (equipment)

ICB

March 2007
till
Jan. 2008

1. Review of design
2. Space allocation
3. Circulation
4. 1/100 loaded drawing
5. 1/20 elevation and details
6. Medical equipment: BOQ detailed specifications and Tender Documents

Project Information

Date

Consulting Services Performed



ORDI Primary Diagnostic Center for the Armed Forces
Sana'a - Yemen
Client: TEAM International, Beirut (Yemeni Governmental Fund)
Works' Volume: Rehabilitation of Diagnostic Center
Works Value in US\$: 5,000,000 (equipment)

Jan. 2004
 till
 July 2004

Consultancy services for revision of concept of the hospital with complete redesign.
 Creation of tender documents, bill of quantities, detailed drawings with equipment layout and loaded drawing with electromechanical requirement. Specifications and budget estimation.

ICB



Jezzine Governmental Hospital & Rmeich Primary Healthcare Center, Lebanon
Client: Council for Development & Reconstruction CDR Beirut, Islamic Development Bank (IDB Fund)
Works' Volume: 80 Beds
Works Value in US\$: 3,000,000 (equipment)

Dec. 2009
 till
 2011

Consultancy services for the coordination and Supervision of installation of medical equipment and furniture

*Abdelwahed Chehab Consulting Engineering Office
 Joint-Venture ICB*



Halba Governmental Hospital, Akkar Lebanon
Client: Council for Development & Reconstruction CDR Beirut (OPEC Fund)
Works' Volume: 75 Beds
Works Value in US\$: 2,459,000 (equipment)

Dec. 2002
 till
 Feb. 2004

Consultancy services for the coordination and supervision of installation of medical equipment and furniture

*Abdelwahed Chehab Consulting Engineering Office
 Joint-Venture ICB*



Meis el Jabal Governmental Hospital Lebanon
Client: Kuwait Fund for Arab Economic Development (KFAED)
Works' Volume: 70 beds
Works Value in US\$: 1,500,000 (civil) & 3,500,000 (equipment)

July 2001
 Till
 May
 2004

Design, supervision, management, coordination and commissioning

*Abdelwahed Chehab Consulting Engineering Office
 Joint-Venture ICB*

Project Information

Date

Consulting Services Performed



**Sheikh Khalifa Bin Zayed Hospital
Lebanon**

Client: MA Consulting Group (United Arab Emirates Funds)

Works' Volume: New Hospital, complete design of 40 beds

Works Value in US\$: 11,000,000 (civil) & 5,000,000 (equipment)

ICB

Dec.2006
till
March 2007

1. Review of design
2. Space allocation
3. Circulation
4. 1/100 loaded drawing
5. 1/20 elevation and details
6. Medical equipment: BOQ detailed specifications and Tender documents



**Zahle Governmental Hospital
Lebanon**

Client: Council for Development & Reconstruction CDR Beirut, Islamic Development Bank (IDB Fund)

Works' Volume: 220 beds

Works Value in US\$: 5,370,000 (equipment)

*Abdelwahed Chehab Consulting Engineering Office
Joint-Venture ICB*

Jan.2006
ill
Jan. 2007

Consultancy services for the coordination and supervision of installation of medical equipment and furniture



**Saida Governmental Hospital
Lebanon**

Client: Council for Development & Reconstruction CDR Beirut, Islamic Development Bank (IDB Fund)

Works' Volume: 130 beds

Works Value in US\$: 5,290,000 (equipment)

*Abdelwahed Chehab Consulting Engineering Office
Joint-Venture ICB*

Jan. 2006
till
Nov. 2006

Consultancy services for the coordination and supervision of installation of medical equipment and furniture



**Marjeyoun Governmental Hospital
Lebanon**

Client: Council for Development & Reconstruction CDR Beirut, Islamic Development Bank (IDB Fund)

Works' Volume: 60 beds

Works Value in US\$: 1,600,000 (equipment)

*Abdelwahed Chehab Consulting Engineering Office
Joint-Venture ICB*

May 2005
till
June 2006

Consultancy services for the coordination and supervision of installation of medical equipment and furniture

Project Information

Date

Consulting Services Performed



**National Institute of Health, Bsalm
Lebanon**
Client: National Institute of Health, Bsalm
Works' Volume: 160 Beds
Works Value in US\$: 35,000,000 (civil) & 3,500,000 (equipment)

July 2001
till
Dec. 2003

Specification review, project manager for coordination, supervision and commissioning

ICB



**Prince Abdulaziz Bin Mosaad General Hospital,
Ar'ar - Kingdom of Saudi Arabia**
Client: Al Otaishan Group - AREEL
Works' Volume: 100 beds
Works Value in US\$: 20,000,000 (civil) & 5,000,000 (equipment)

July 2002
till
Sep. 2002

Review of specifications of medical equipment

ICB



**Nabatieh Governmental Hospital
Lebanon**
Client: Associated Consulting Engineering, Kuwait Fund for Arab Economic Development (KFAED Fund)
Works' Volume: 70 Beds
Works Value in US\$: 2,642,178 (equipment)

April 1997
till
Sep. 1997

Coordination, supervision and commissioning

ICB



**Tannourine Governmental Hospital
Lebanon**
Client: Associated Consulting Engineering, Kuwait Fund for Arab Economic Development (KFAED Fund)
Works' Volume: 40 beds
Works Value in US\$: 1,727,719 (equipment)

April 1997
till
Sep. 1997

Coordination, supervision and commissioning

ICB

Project Information

Date

Consulting Services Performed



Rashaya Governmental Hospital Lebanon

Client: Associated Consulting Engineering, Kuwait Fund for Arab Economic Development (KFAED Fund)

Works' Volume: 40 Beds

Works Value in US\$: 1,727,719 (equipment)

ICB

April 1997
till
Sep. 1997

Coordination, supervision and commissioning



Additional Equipment for Rashaya, Tannourine, Sir el Denieh & Nabatieh Hospitals Lebanon

Client: Associated Consulting Engineering, Kuwait Fund for Arab Economic Development (KFAED Fund)

Works' Volume:

Works Value in US\$: 553,445 (equipment)

ICB

Coordination, supervision and commissioning



Hotel Dieu de France Lebanon

Client: Hotel Dieu de France

Works' Volume: 450 beds

Works Value in US\$:

ICB

March 2001
till
April 2010

Responsible for the elaboration of financial studies for the hospital such as cost of operation, yield Management, feasibility. Work closely with the board of directors for the elaboration of financial policies, and financial analysis.

Hospital planning Design Review and Redesigning of the Hospital Functional Program o Review and Approval of:

- Space Allocation, Department Distribution
- Interdepartmental relation and flow
- Functional Analysis
- Architecture Single line
- Finishing Material and Room

Schedule o Preparation of:

- 1:100 Loaded drawings
- 1:20 Detailed drawings
- Counters and casework detailed drawings
- Electro-mechanical requirements
- BOQ, Room Schedule and Budget Estimation
- Specifications of Medical Equip.& Furnit.
- Tender / Purchase document

	Project Information	Date	Consulting Services Performed
	<p>Hammoud Hospital University Medical Center (HHUMC) Saida, Lebanon</p> <p>Client: Confidential</p> <p>Works' Volume: 325 beds</p> <p><i>ICB</i></p>	<p>April 2021 till May 2021</p>	<p>Audit, survey and observation of medical planning & medical equipment/biomedical systems, energy consumption, physical conditions, maintainability, code compliance, authorities compliance, life safety, recommendations, and cost estimates of repairs.</p> <p>Medical planning/Medical Equipment design</p>
	<p>IMC Hospital- Jeddah, Kingdom of Saudi Arabia</p> <p>Client: IMC Hospital</p> <p>Works' Volume: 300 Beds</p> <p><i>ICBos</i></p>	<p>May 2017 till Oct 2017</p>	<p>Audit, survey of current hospital facilities. MEPF Study and assessment of energy efficiency, noise control related to mechanical equipment, generators and sound attenuations.</p> <p>Study and assessment of safety and life related to fire alarms & firefighting systems in compliance with civil defence and NFPA, security.</p> <p>MEPF Design Development.</p>
	<p>Al Mashfa Hospital-Jeddah, Kingdom of Saudi Arabia</p> <p>Client: Amanat Holdings</p> <p>Works' Volume: total BUA of ~ 30,545 m2 (80 beds)</p> <p><i>ICBos</i></p>	<p>Feb 2017 till April 2017</p>	<p>Audit, survey and observation of: structural, MEPF & biomedical systems, energy consumption, physical conditions, maintainability, code compliance, authorities compliance, life safety. Recommendations, and cost estimates of repairs</p> <p>MEPF Design Development</p>

Project Information

Date

Consulting Services Performed



Rafik Hariri University City and its affiliated facilities - Hadath Campus Lebanon

Client: Lebanese University

Works' Volume: 705,000m² (land)
370,000m² (BUA)

Works Value in US\$:

ICB

Aug. 2023
till
Nov. 2024

Management, operation and maintenance of all facilities and electromechanical systems in the 11 faculties, sports stadium & dormitories of the university campus including corrective/preventive maintenance, monitoring / efficiency measures, spare parts and updating new equipment & systems for Civil, HVAC, Plumbing, Electrical, Generators, Fire, BMS, Elevators, etc.



Blood Transfusion Services - Lebanon

Client: Red Cross

Works' Volume: 13 centers

Works Value in US\$: N/D

ICB

July 2020
till
Present

Blood transfusion laboratory equipment supervision, maintenance and support for 13 centers across Lebanon.



Rafik Hariri University Hospital (Beirut Governmental University Hospital) Lebanon

Client: Rafik Hariri University Hospital

Works' Volume: 550 beds

Works Value in US\$: 5,801,000

ICB

Sept. 2016
till
Aug. 2023

Supervision and Corrective/preventive maintenance of all biomedical and electromechanical equipment in the hospital including energy consumption monitoring/efficiency measures, spare parts and updating new equipment.

Project Information

Date

Consulting Services Performed



**Dahr el Bashek Hospital
Lebanon**

Client: Dahr el Bashek Governmental Hospital (WB Fund)

Works' Volume: 120 beds

Works Value in US\$:

ICB

July 2004
till
July 2007

Corrective and preventive maintenance of all biomedical and electromechanical equipment in the hospital including spare parts and updating new equipment



**Halba Governmental Hospital, Akkar
Lebanon**

Client: Halba Governmental Hospital

Works' Volume: 75 beds

Works Value in US\$: 180,000

ICB

Oct. 2004
till
Oct. 2006

Supervision and Corrective/preventive maintenance of all biomedical and electromechanical equipment in the hospital including spare parts and updating new equipment



**Hotel Dieu de France
Lebanon**

Client: Hotel Dieu de France

Works' Volume: 450 beds

Works Value in US\$:

ICB

May 1991
till
May 2009

Corrective and preventive maintenance of all biomedical equipment in the hospital



**National Institute of Health, Bsalim
Lebanon**

Client: National Institute of Health (WB Fund)

Works' Volume: 160 beds

Works Value in US\$:

ICB

Oct. 2003
till
Oct. 2004

Corrective and preventive maintenance of all biomedical and electromechanical equipment in the hospital including spare parts and updating new equipment

	Project Information	Date	Consulting Services Performed
	<p>Mussallah of Jabal Omar Development Makkah, Kingdom of Saudi Arabia</p> <p>Client: JODC</p> <p>Works' Volume: 150,000 m² for 70,000 pilgrims</p> <p>Works Value in US\$: 160,000,000 (construction)</p>	<p>2012 till 2014</p>	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Architecture - Structure - MEPF
<p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>			
	<p>City Upscale Hotel Dbayeh Waterfront, Lebanon</p> <p>Client: Majed Al Futtaim</p> <p>Works' Volume: 17,500 m²</p> <p>Works Value in US\$: 45,000,000 (construction)</p>	<p>2012 till 2013</p>	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Structure - MEPF
<p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>			
	<p>Malga Residential Complex Riyadh, Kingdom of Saudi Arabia</p> <p>Client: Urjuan Property</p> <p>Works' Volume: 18,000 m²</p> <p>Works Value in US\$: 18,500,000 (construction)</p>	<p>2011 till 2013</p>	<p>Design Engineering and Development for:</p> <p>Buildings including:</p> <ul style="list-style-type: none"> - Architecture - Structure - MEPF
<p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>			
	<p>Badaro Gardens comprising 3 residential blocks Beirut, Lebanon</p> <p>Client: AAA Architects</p> <p>Works' Volume: one 17 stories and two 7 stories blocks</p> <p>Works Value in US\$: 16,000,000 (construction for each)</p>	<p>2008 till 2014</p>	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Structure - MEPF
<p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>			

	Project Information	Date	Consulting Services Performed
	<p>Musaffah Gardens Development comprising Hotel and Residential Apartments Abu Dhabi, United Arab Emirates</p> <p>Client: ROYA</p> <p>Works' Volume: 30,000 m²</p> <p>Works Value in US\$: 110,000,000 (construction)</p> <p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>	<p>2008 till 2012</p>	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Architecture - Structure - MEPF - Site utilities/ infrastructure networks
	<p>Saraya Tower R16 & Danet Tower Complex Abu Dhabi, United Arab Emirates</p> <p>Client: R&K Architects</p> <p>Works' Volume: 33 residential floors each tower</p> <p>Works Value in US\$: 54,000,000 (construction for each)</p> <p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>	<p>2008 till 2011</p>	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Structure - MEPF
	<p>Saraya Hospital Abu Dhabi, United Arab Emirates</p> <p>Client: Sorouh</p> <p>Works' Volume: 400 beds</p> <p>Works Value in US\$: 200,000,000 (construction)</p> <p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>	<p>2008 till 2010</p>	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Architecture - Structure - MEPF
	<p>Abu Dhabi Trade Center – Extension 3 comprising Hotel / Services Apartments & Offices Abu Dhabi, United Arab Emirates</p> <p>Client: MACE</p> <p>Works' Volume: 88,000 m²</p> <p>Works Value in US\$: 400,000,000 (construction)</p> <p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>	<p>2008 till 2009</p>	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Structure - MEPF



Project Information	Date	Consulting Services Performed
<p>Apex Complex comprising Hotel Tower & Office Tower Abu Dhabi, United Arab Emirates</p> <p>Client: CAP</p> <p>Works' Volume: 80,000 m²</p> <p>Works Value in US\$: 100,000,000 (construction)</p> <p><i>Dany Bitar, Sr. Projects Manager @RELK&P</i></p>	2008	<p>Design Engineering and Development for:</p> <ul style="list-style-type: none"> - Structure - MEPF



<p>New American School of Doha Doha, Qatar</p> <p>Client: ACS / Hill International</p> <p>Works' Volume: 30,000 m²</p> <p>Works Value in US\$: confidential</p> <p><i>Dany Bitar, Project Manager MEP @Al Sraiya Contracting</i></p>	2006 till 2008	<p>Construction Engineering & Execution Works for:</p> <ul style="list-style-type: none"> - Architecture - Civil & Structure - MEPF - Chiller Plant - Sports fields
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<p>Clemenceau Medical Center Beirut, Lebanon</p> <p>Client: CMC</p> <p>Works' Volume: 150 beds</p> <p>Works Value in US\$: 150,000,000</p> <p><i>Dany Bitar, Project Manager MEP @Equip Engineering & Contracting</i></p>	2004 till 2006	<p>Construction Engineering & Execution Works for:</p> <ul style="list-style-type: none"> - Architecture - Structure - MEPF
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Contact Us

Contact Address (Main Office):

Aresco Tower, 4th floor
St. Justinian Street, Clemenceau
Beirut, Lebanon.

Tel +961 1 347 597
Fax/Tel +961 1 736 233
Email contact@icb-hq.com
Web www.icb-hq.com

Imad Issa

Email: drimadissa@gmail.com
Mobile: +961 3 957 701

Nakhle Husseini

Email: nakhle.husseini@gmail.com
Mobile: +961 3 302 619

Dany Bitar

Email: danykbitar@gmail.com
Mobile 1: +961 3 300 171
Mobile 2: +966 53 105 7866