أشكال عربية

SPECIALIZED CONSTRUCTION
COMPANY KSA

Providing genuine value beyond expectation

## About Company Deliverables

We offer a full spectrum of services to help organizations work better. We create standards of excellence and help you achieve them.

With Ashkal Arabia's perfect performance in managing diversity and working together, we have obtained a competitive edge in the industry. page Deliverables

# Company Introduction

One of the prominent companies that contribute to the designing and construction of the Architecture, Civil, and MEP for contracting business in KSA is Ashkal Arabia Company.

The team of Ashkal Arabia has been working for more than 10 years in project management designing & carrying out multiple projects in a variety of industries.

It includes:

- **Residential**
- **Healthcare**
- **Industrial**
- **Hospitality**

# Company Dedication

As a result of our dedication to completing projects with the greatest quality, on time, and within budget while upholding the highest standards of health, safety, and the environment, Ashkal Arabia Company has been known as a leading company in project Engineering.

**With dedicated, skilled, experienced and advanced management, Ashkal Arabia Company is forwarding toward a brighter future.**

# OUR MOST PROMINENT CLIENTS

MASARAT Accreditation
مسارات الاعتماد

جامعة الإمام عبدالرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

الشركة الوطنية للرعاية الطبية
NATIONAL MEDICAL CARE CO.

مستشفى الملك فيصل التخصصي ومركز الأبحاث
King Faisal Specialist Hospital & Research Centre
Gen. Org. مؤسسة عامة

دسر
DUSSUR

أسس
للخدمات الفندقية

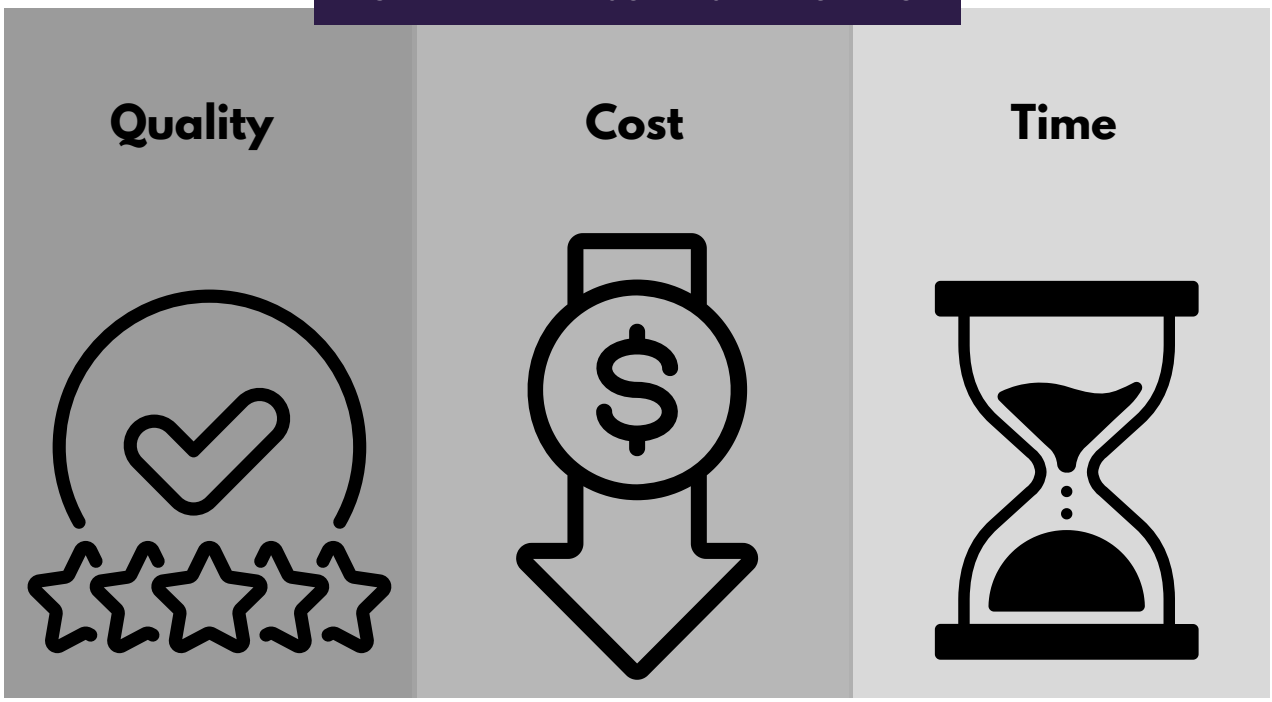
SFDA
الهيئة العامة للغذاء والدواء
Saudi Food & Drug Authority

ABMI
ADVANCED BIO-MEDICAL INDUSTRIAL CO.
الشركة الطبية المتقدمة الصناعية

# Company Philosophy

According to our business philosophy, the customer, designer, and executioner are to set from an early stage of any project. Translating the customer requirements into an executable design, to increase collaboration and communication throughout the project. As a result, the triangle of quality, time, and cost is maintained at balance.

## ASHKAL ARABIA GUIDING PRINCIPLES:



# Company Vision

Our vision is to give high-end projects to our clients that not only show the buildings accurately but also convey the design and appeal to the audience. We do this by combining our superior, visionary and innovative directing talents.

# Company Mission

- Highest Class
- Client Satisfaction
- Joint Execution
- Creative thinking
- Open-flow ideas
- Fluctuating demands
- Finest standard
- R&D based

# Company Drives

- Passion
- Professionalism
- Efficiency
- Sustainability
- Innovation
- Adaptability
- Transparent
- Measured Surveys

**We have no restrictions when it comes to working on an interesting project. Thanks to our adaptable workflow and knowledgeable engineers.**

# Company Skills

**Ashkal Arabia's "CAN DO" approach is a reflection of its result-oriented culture.**

- Architectural design and drafting
- Structural engineering and analysis
- Project management and scheduling
- Construction planning and supervision
- Building information modeling (BIM)
- Computer-aided design (CAD)
- Energy-efficient and sustainable design
- Interior design and space planning
- Site analysis and feasibility studies
- Code compliance and permitting
- Cost estimating and budget management
- Construction materials and methods knowledge
- Safety and quality control
- Collaboration with clients and stakeholders
- Renovation and retrofitting expertise
- Landscaping and site development.

## WHY ASHKAL ARABIA?

- Ashkal Arabia has a methodology of project management for constructing building. An operated team for the integration system of the designing and construction operations.
- Ashkal Arabia is devoted and affiliated with its vision. Our number one priority is to construct the client's requirements.
- Ashkal Arabia surrounds the details that affect the project in the long run which follows the statement of reducing what causes maintenance.

أشكال عربية

SPECIALIZED CONSTRUCTION
COMPANY KSA

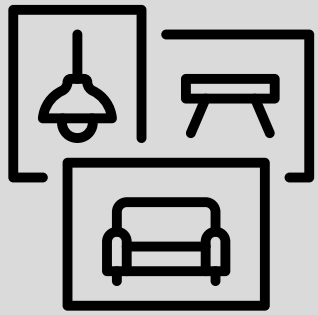
# Our Services:

## What we do?

**Chapter One:**
Design Work (Papers Phase)

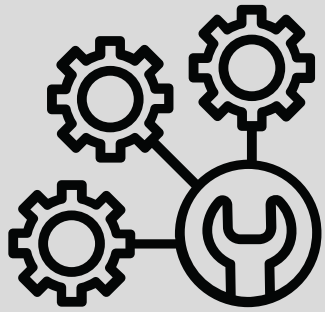
**Chapter Two:**
Construction Work (Site Phase)

**Chapter Three:**
Finishing work (Site en-close)



**Chapter Four:**
Sub-Complementary Services

- Carpentry Workshop
- 3D Scanner



## Chapter: 1

## Design Work

- Architectural Design Plans
- Interior Design Plans
- Civil Design Plans
- Electrical Design Plans
- Plumbing Design Plans

## Chapter: 2

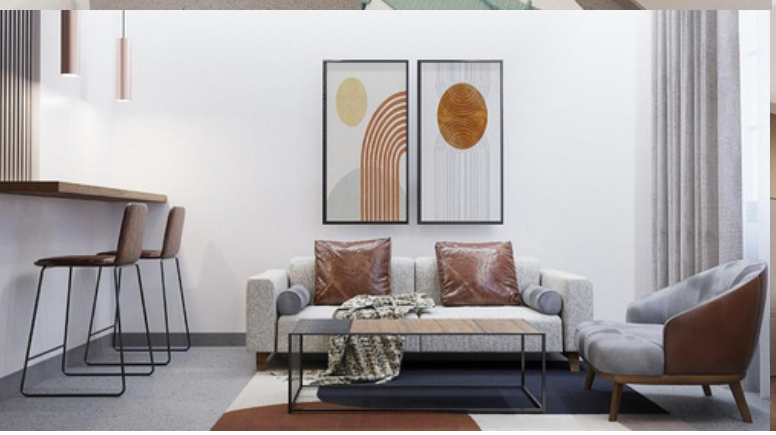
## Construction Work

- Project site supervision
- Excavation Site work and foundation
- Exterior Structure
- Electrical and plumbing
- Facades construction

# Site en- close Phase








## Chapter: 3

## Finishing Work

- Building Interior finishing
- Building Exterior finishing

# Sub-Complementary Services

Chapter: 4

## Carpentry Workshop

- Ashkal Arabia has a Workshop that provides custom-made furniture and woodworking products.
- Woodworking is an innovative solution that expresses the benefits of a design.
- Carpentry services increase the efficiency of production, as designers create projects quickly and accurately.
- Carpentry services improve safety on the site, as carpenters have experience in the handling of dangerous tools.

Chapter: 4

## 3D Scanner

Ashkal Arabia provides a service to follows quality standards. 3D scanner technology that provides a 360 view with the actual dimensions for renovation and finishing of projects.

What 3D scanner technology can do?

- Accurate site measurements.
- Timeless
- Remote coordination
- Reduce Risk
- Clash detection
- Decreased re-work
- Increased profit margins

أشجار عربية

SPECIALIZED CONSTRUCTION
COMPANY KSA

# Our Projects

| | |
|---|---|
| Project | Bio-Safety Level 3 LABORATORY (BSL-3) Project |
| Client | جامعة الإمام عبدالرحمن بن فيصل<br>IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY |
| Project Site | DAMMAM, KINGDOM OF SAUDI ARABIA (KSA) |
| Consultant | WORLD BioHazTec |
| Contractor | MASARAT Accreditation<br>مسارات الاعتماد |

| | |
|---|---|
| Date: | March - 2022 |

# Bio-safety Level 3 LABORATORY

## Introduction

"Biosafety Levels" (BSL-3) are designations applied to projects or activities conducted in laboratories in ascending order of containment based on the degree of the health-related risk associated with the work being conducted.

(BSL-3) are highly complicated projects. In these projects, we provided our clients MASART for ACCREDITATION several services. These services include designing, constructing and managing several BSL-3 sites.

- One is at Saudi Arabia Food Drug Authority (SFDA) - **Riyadh**
- Another is at Imam Abdul Rahman Bin Faisal University - **Dammam**

These projects are designed by our team and international consultants based on local and international codes and standards. Moreover, these codes include Saudi building code SBC, and NIH, BMBL 5th edition and WHO.

كود البناء السعودي
Saudi Building Code

NIH
National Institute of Health

Biosafety Laboratories

World Health Organization

## Architectural Design

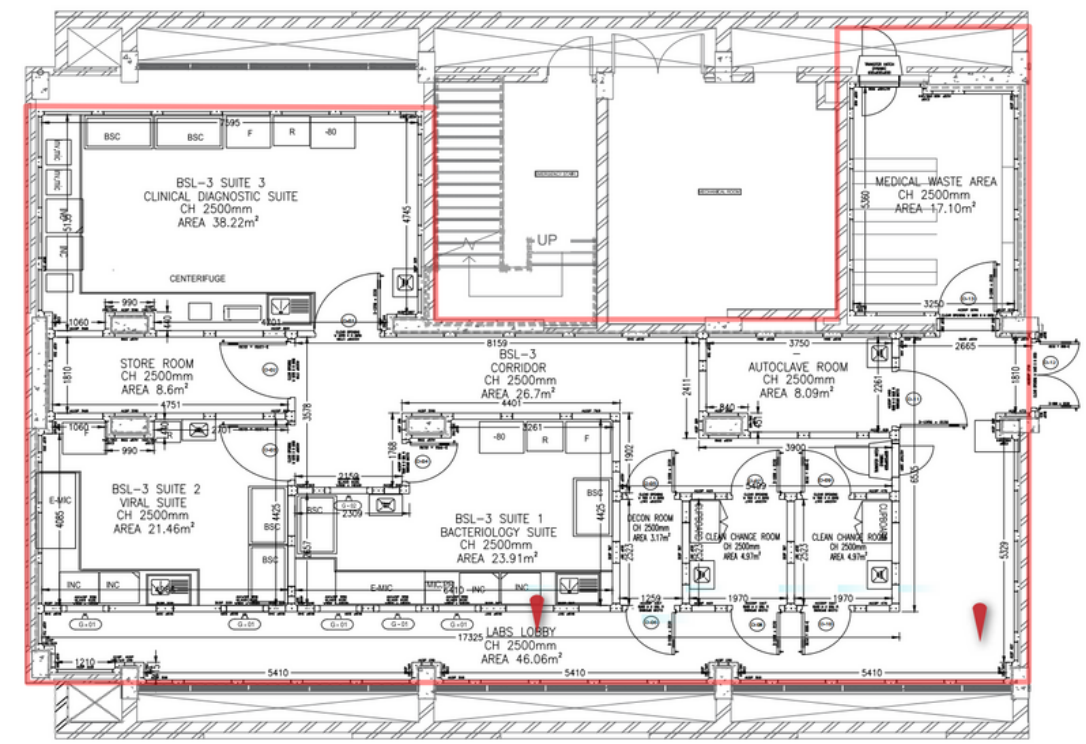
This Facility is designed to Assure the safe management of infectious material. The design purpose is to contain, eliminate and reduce potential exposure to potentially hazardous agents.

Barrier protection philosophy is accomplished as a two-layer approach consisting of primary and secondary barriers. Those barriers are aimed not only to protect the people inside the lab but to protect the occupants in the building and the community around the lab.

- Applying international standards and guidelines
- Waste management
- Equipment and furniture distribution
- Airflow direction controlled via Architectural Design
- Exterior envelop
- Interior fishes
- Material selection
- Access to the lab

# Bio-safety Level 3 LABORATORY

## Architectural Floor Plan




## Monitors and Controls:

The supply and exhaust systems are controlled by having an adequate monitor and control system integrated with the BMS system, this includes the following:

- **Venturi Valves:** Designed for critical environment airflow control in laboratories, life science and healthcare facilities where precise airflow measurement and control is required.
- **Finned Duct Heaters:** These heaters consists of a slip-in type mounted in a flanged duct section. All the controls are mounted in the terminal box of the slip-in portion.
- **Room Environmental Monitors and Controls Solution:** This solution is both a controller and monitor, with audible and visual alarming on all room environmental parameters. Which are:

1. Pressure
2. Temperature
3. Humidity
4. Air change

# Bio-safety Level 3 LABORATORY

## Mechanical Design

The contamination of airborne in biocontainment facilities is controlled by the HVAC system. The ventilation system plays an important role in biocontainment facilities' performance and operation.

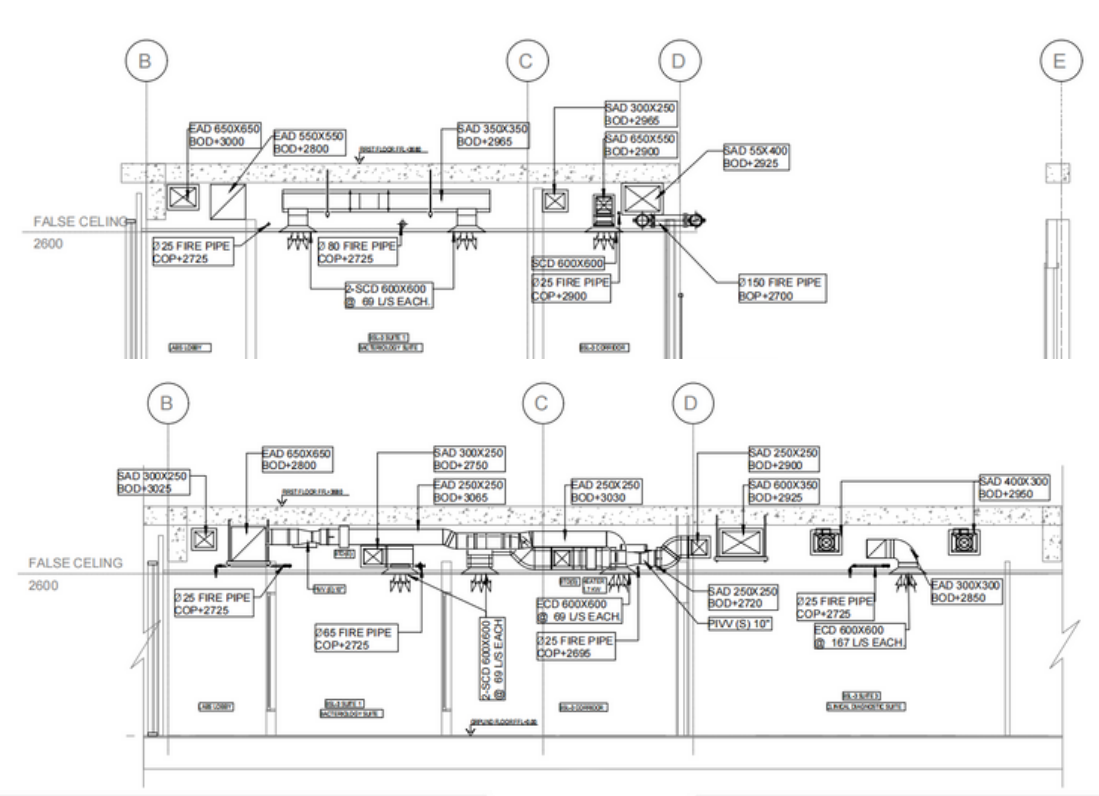
Meanwhile, the ventilation system of the BSL-3 is designed to maintain directional air movements from areas less contaminated to areas that are progressively more contaminated.

**Mechanical Design consists of:**

- Supply Air and Exhaust System
- HVAC Duct Work
- HVAC Duct Material
- HVAC System
- HVAC Schematics
- HVAC 3D Design

## Supply & Air Exhaust System

These labs are designed to have dedicated supply & exhaust air systems. It consists of two DX AHUs and two high-plume fans, one of each is the duty and one is standby. The standby units are connected to the buildings' emergency power to control the failure scenarios.



# Bio-safety Level 3 LABORATORY

**HVAC Duct Work:**

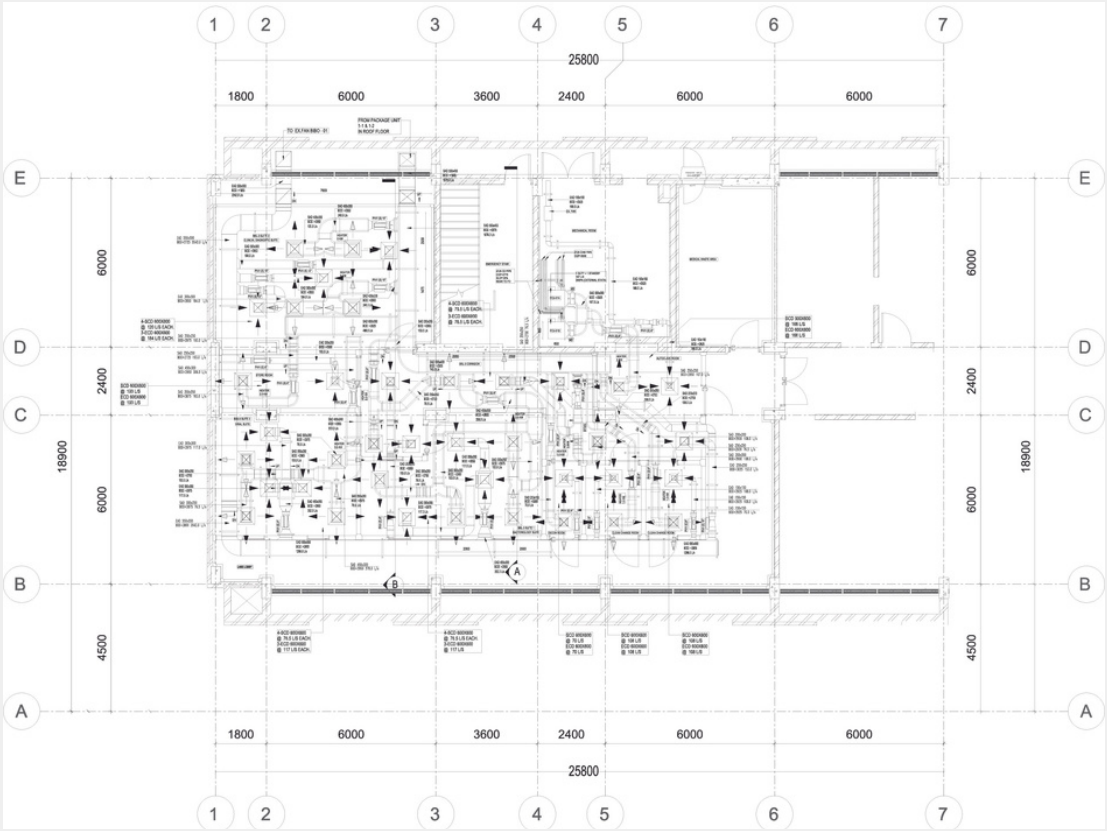
Ductwork design is conducted to achieve the requirements with zero clashes between the existing and new systems. Thus, the systems are designed and coordinated using Revit and 3D scanning technology.

During designing duct joining, elbows and branches will not affect the pressure and the air volume required in the facility.

**HVAC Duct Material:**

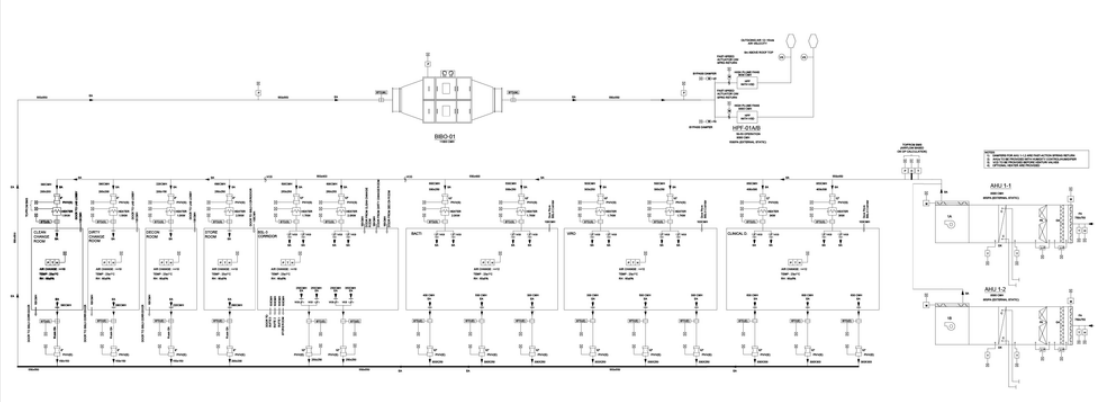
As required by standards, the duct material is stainless steel gauge 18G from the dedicated units to the diffusers with no flexible connections or joints.

**HVAC System**

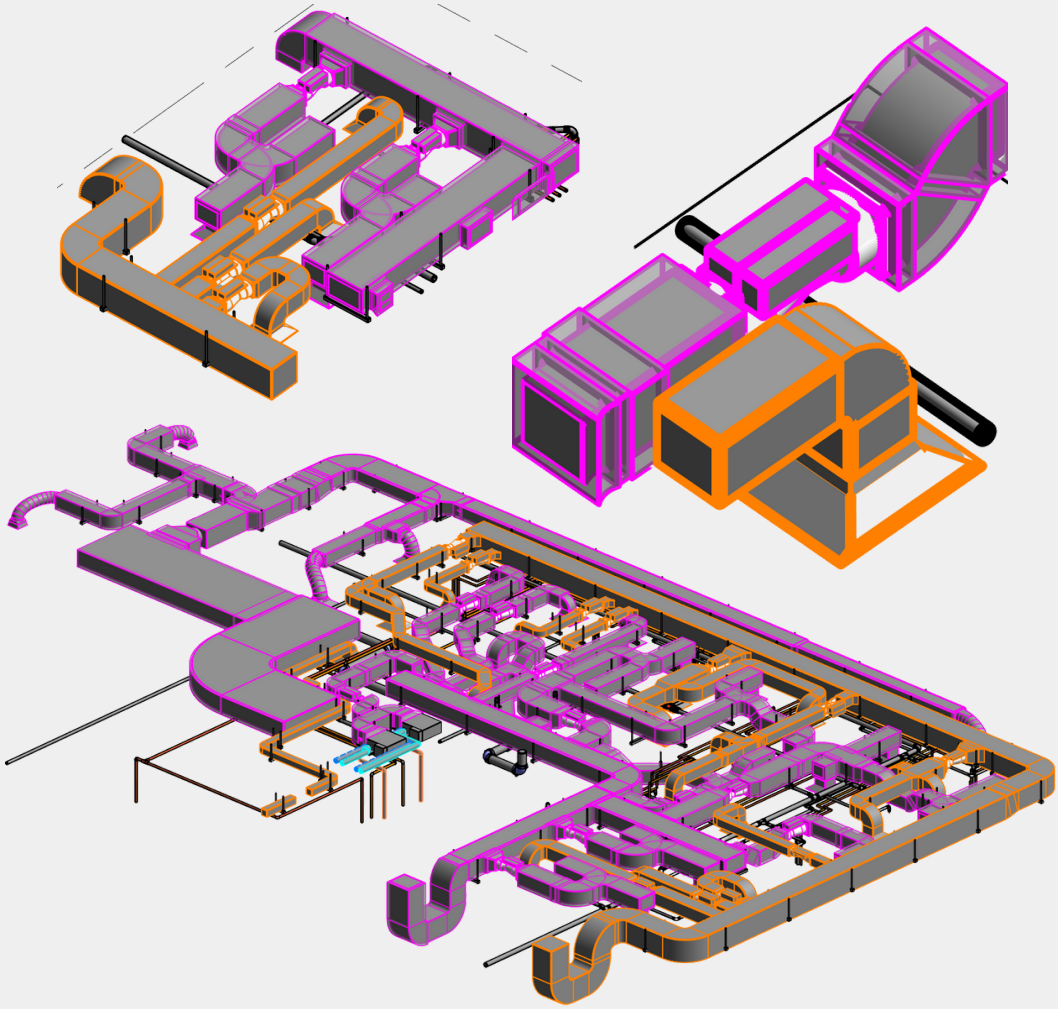


# Bio-safety Level 3 LABORATORY

**HVAC Schematics:**



**HVAC 3D Pictures**



# King Faisal Specialist Administrative Office and Research Center project

## Project Overview

The project involves the construction of an administrative office within the King Faisal Specialized Hospital and Research Center in Al-Madinah. The aim of the project is to improve the infrastructure and enhance the services provided in the medical field. Dedicated workspaces equipped with the latest technologies and facilities are provided for the management and staff to improve efficiency and workflow. The project was designed and implemented according to LEED (Leadership in Energy and Environmental Design) standards, which promote sustainability and environmental preservation.

- Location: Al-Madinah, Saudi Arabia.
- Project Area: ٥٦٨٥.٩٤ square meters.
- Project Duration: Not specified.

## Final Design

# Nuski - Makkah

## Project Overview

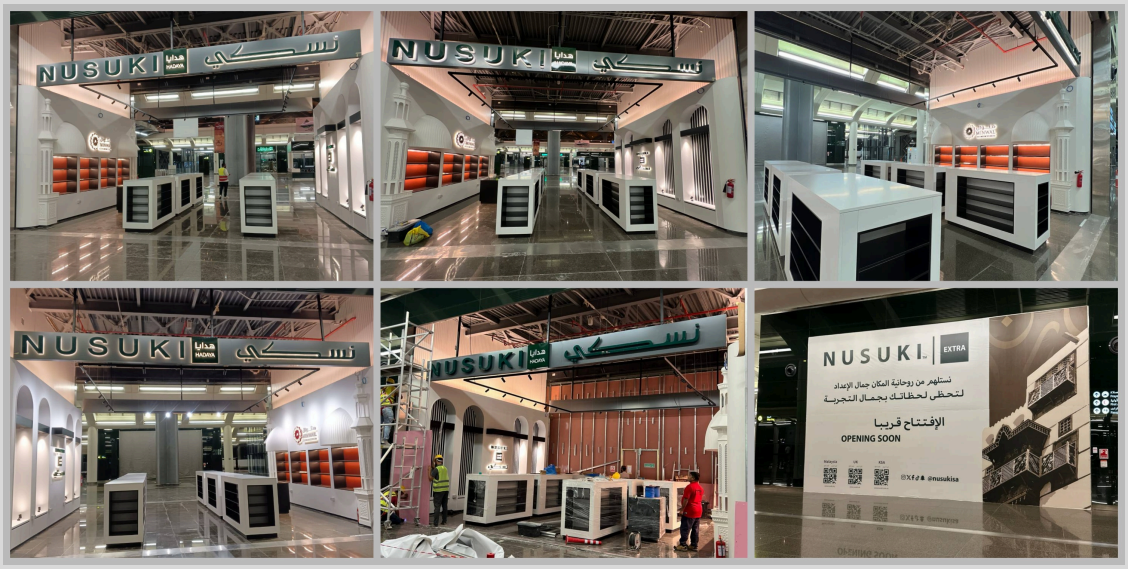
This project involves the construction of a commercial store specialized in gift offerings. It is a dedicated space for displaying and selling a variety of gifts and souvenir products to customers. The store is designed in an innovative and appealing style to attract visitors and make the shopping experience enjoyable and exciting.

The woodworking aspects of the project were executed by our specialized carpentry team, ensuring quality and precision in every detail of the interior design elements. The latest techniques and tools were employed to achieve the desired high-quality finishes and bring the project's vision to life.

Thanks to the craftsmanship and attention to detail of the carpentry team, the final store stands out with its elegance and sophistication, making it an ideal destination for customers seeking unique and high-quality gifts.

- Location: Makkah, Haramain Train Station.
- Project Area: ٦٥.٨٠ square meters.
- Project Duration: Two months.

## Final Desgin



# Nuski - Al-Madinah

## Project Overview

This project involves the construction of a commercial store specialized in gift offerings. It is a dedicated space for displaying and selling a variety of gifts and souvenir products to customers. The store is designed in an innovative and appealing style to attract visitors and make the shopping experience enjoyable and exciting.

The woodworking aspects of the project were executed by our specialized carpentry team, ensuring quality and precision in every detail of the interior design elements. The latest techniques and tools were employed to achieve the desired high-quality finishes and bring the project's vision to life.

Thanks to the craftsmanship and attention to detail of the carpentry team, the final store stands out with its elegance and sophistication, making it an ideal destination for customers seeking unique and high-quality gifts.

- Location: Makkah, Haramain Train Station.
- Project Area: ٩٧.٦٣ square meters. Project
- Duration: Three months.

## Final Desgin

# Studio and Two Residential Units Project

## Project Overview

This project aims to create two high-quality and modern-designed residential units. Each unit consists of a fully equipped studio with all necessary facilities to ensure the residents' comfort, including a living area, bedroom, kitchen, and bathroom. Each unit is designed in a way that efficiently utilizes space and provides a comfortable and suitable living environment.

The project emphasizes providing a distinctive residential experience for the inhabitants, with a focus on quality and attention to detail in every element of the design and construction.

The woodworking aspects of the project were executed by our specialized carpentry team.

- Location: Al-Madinah.
- Project Area: ٤٥ square meters
- Project Duration:

## Final Desgin

# Bio-safety Level 3 LABORATORY

## Electrical Power Systems

Electrical Power System was designed based on the BSL-3 LAB requirements concerning the Saudi electrical code and NIH requirements for BSL-3.

This BSL-3 has two dedicated utility services, which are fed with different primary substations.

**An Electrical distribution board (DP) for BSL-3:**
This design includes normal DP and emergency DP. Electrical load calculations are made based on the following :

1. End-user requirements
2. Heating and cooling capacity
3. Electrical requirements
4. Receptacle serving selected equipment
5. Ideal lighting conditions in the lab facility

**Material Selection:**

1. DP and breakers
2. Switches and sockets
3. Conduit, conductors, cables, and boxes.
4. Light Fixtures

## Lighting Requirements

Based on the Saudi Building Code (SBC) and the ASHRAE standards, the intensity of illumination and the number of distributed fixtures are calculated, to achieve an optimal lighting environment inside the lab facility.

كود البناء السعودي
Saudi Building Code

ASHRAE

# Thanks and Appreciation

Masarat for Accreditation Ltd.
شركة مسارات الاعتماد

تاريخ : 26 September 2022
المرجع : MAS-022-084
عناية : م. أنس بن محمد السيد – المدير العام، شركة أشكال العربية للتجارة والمقاولات

الموضوع : خطاب شكر وتقدير

يسرنا أن نتقدم لكم ولكافة فريق العمل في شركة اشكال العربية بخالص الشكر والتقدير على مجهوداتكم في إدارة المشاريع وتنفيذها باحترافية ومهنية عالية والتي أسهمت في رضا عملائنا وانعكست على ثقتهم في اعمالنا.

مرفق لكم قائمة المشاريع التي تم التعاون بها مع شركتكم الموقرة:

| رقم | أسم المشروع | مالك المشروع | وصف نطاق العمل | السنة |
|---|---|---|---|---|
| 1 | الغرف النظيفة لتحضير الأدوية الكيماوية والغير كيماوية في الصيدلية | مستشفى الملك فيصل التخصصي ومركز الأبحاث – المدينة المنورة | تصميم وتنفيذ الغرف النظيفة شاملة الأعمال المعمارية والالكتروميكانية والأجهزة الطبية والاثاث | 2021 |
| 2 | مختبر السلامة البيولوجية المستوى الثالث | الهيئة العامة للغذاء والدواء – الرياض | تصميم وتنفيذ مختبر السلامة البيولوجية المستوى الثالث شاملة الأعمال المعمارية والالكتروميكانية والأجهزة الطبية والاثاث | 2022 |
| 3 | مختبر تحضير وتصنيع اللقاحات | جامعة الإمام عبدالرحمن بن فيصل - الدمام | تصميم وتنفيذ مختبر السلامة البيولوجية المستوى الثالث شاملة الأعمال المعمارية والالكتروميكانية والأجهزة الطبية والاثاث | 2022 |
| 4 | الغرف النظيفة لصناعة الأجهزة والمستلزمات الطبية | الشركة الطبية المتقدمة الصناعية | تصميم وتنفيذ الغرف النظيفة للمصنع شاملة الاعمال المعمارية والميكانيكية | 2022 |
| 5 | مختبر السلامة البيولوجية المستوى الثالث | جامعة الإمام عبدالرحمن بن فيصل – الدمام | تصميم وتنفيذ مختبر السلامة البيولوجية المستوى الثالث شاملة الأعمال المعمارية والالكتروميكانية والأجهزة الطبية والاثاث | 2022 |

هذا للعلم والإحاطة،،،

فيصل بن عبدالله الرشيدي – المدير العام

MASARAT Accreditation
MASARAT
C.R: 1010440844
شركة مسارات الإعتماد

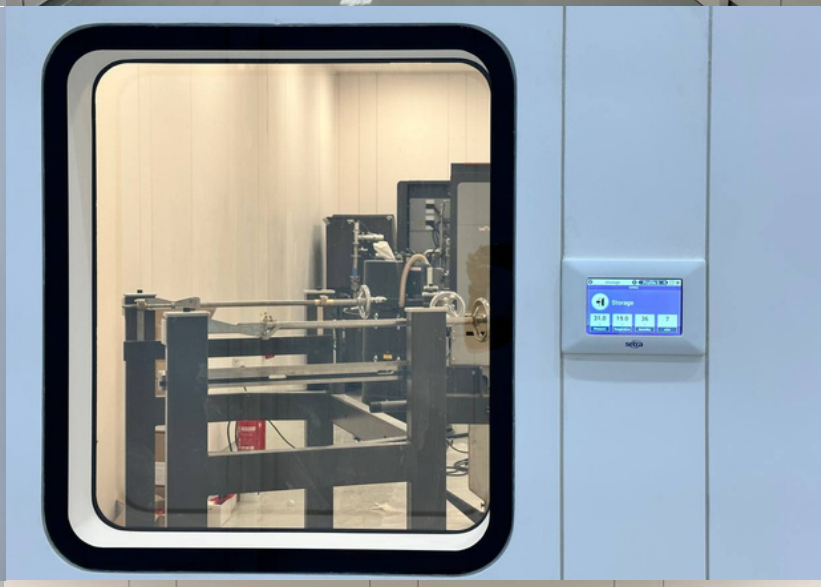
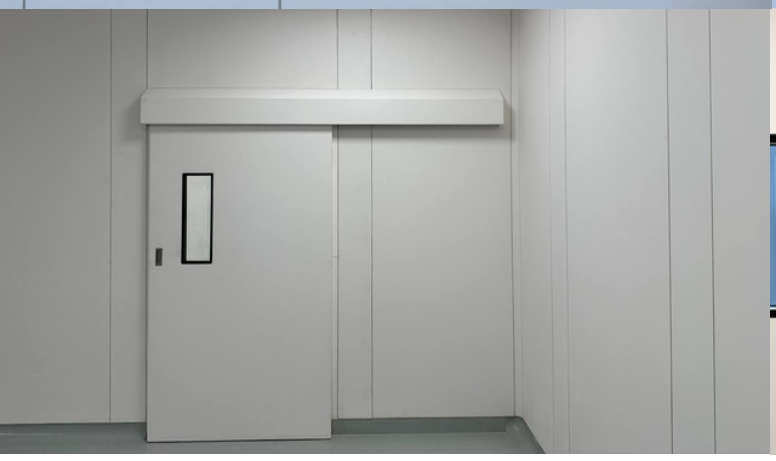
شركة مسارات الاعتماد للتجارة - رأس المال 100.000 ريال - سجل تجاري رقم 1010440844 - الرقم الضريبي 310097194700003
MASARAT For Accreditation Co. - Paid Up Capital SR 100.000 - CR: 1010440844 - Value Added Tax Number 310097194700003
+966 11 487 00 43 +966 11 487 00 37 PO Box Riyadh 13321 - 7858 info@m4acc.com

| | |
|---|---|
| Project | Dussur 3D Printing Facility |
| Client | دسر DUSSUR |
| Project Site | RIYADH, KINGDOM OF SAUDI ARABIA (KSA) |
| Consultant | WORLD BioHazTec |
| Contractor | MASARAT Accreditation مسارات الاعتماد |

| | |
|---|---|
| Date: | March - 2023 |

# Dussur 3D Printing Facility




**Project: 2**

The facility was designed and constructed in record time, with practical completion achieved within 60 days

# Dussur 3D Printing Facility

## Description

Our company was proud to be involved in the construction of the Dussur 3D Printing Facility, a world-class facility that is owned and operated by Dussur, a Saudi Arabian industrial investment company.

The facility is 500 square meters in size and houses a variety of 3D printing technologies, including metal and plastic printers. It is also equipped with a fire suppression system, electrical system, and argon gas system.

The Dussur 3D Printing Facility is a state-of-the-art facility that will help Dussur to develop and manufacture innovative products using additive manufacturing. The facility is also expected to create new jobs and boost the local economy.
We are proud to have played a role in the construction of this important facility and we look forward to seeing the positive impact it has on the Kingdom of Saudi Arabia.

- The facility was designed to meet the highest standards of safety and quality.
- The project was completed on time and within budget.
- The facility is a valuable asset to Dussur and the Kingdom of Saudi Arabia.
- Our company has a proven track record of success in delivering complex projects on time and within budget.
- We are committed to providing our clients with the highest quality of service

# Thanks and Appreciation

دسر
DUSSUR

Certificate of Appreciation

Proudly Presented to

**Anas Alsayed**

For his valuable Contribution to the completion of NAMI Facility in accordance with the approved specifications and with highest standards.

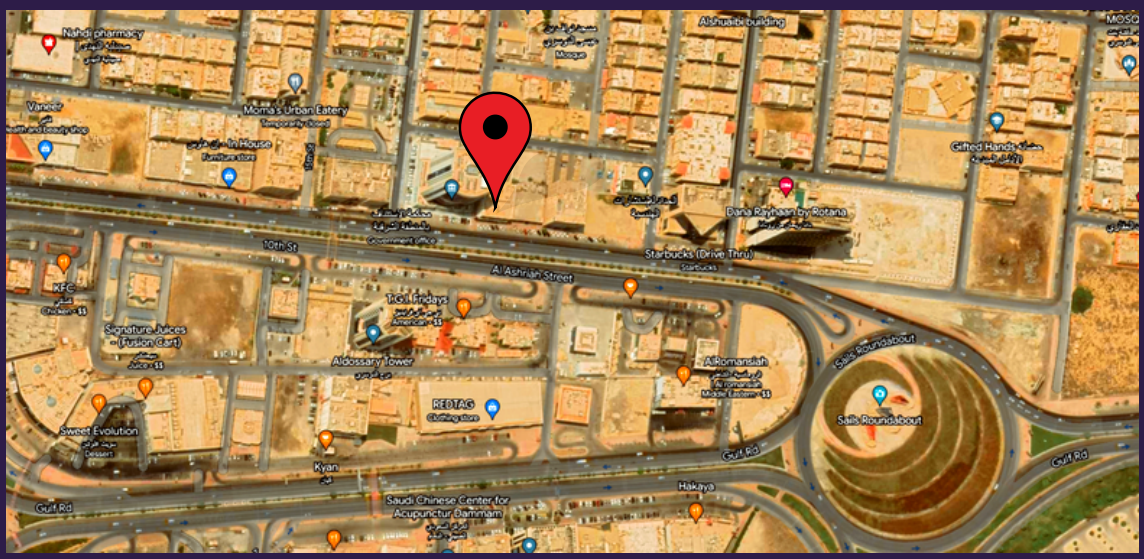
Chief Executive Officer
**Raed N. Al-Rayes**

أشكال عربية

SPECIALIZED CONSTRUCTION
COMPANY KSA

**Contact:** +966 57 000 0628

**Office:** Al Ashriah Street, Al Badi, Dammam 32415, Saudi Arabia




**Follow us on:**

أشكال عربية

SPECIALIZED CONSTRUCTION
COMPANY KSA