



**FAHAD AHMAD AL-KHONAINI**  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA

JV TECHNOLOGY PARTNER



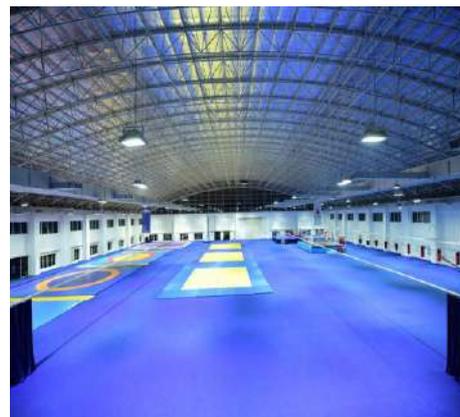
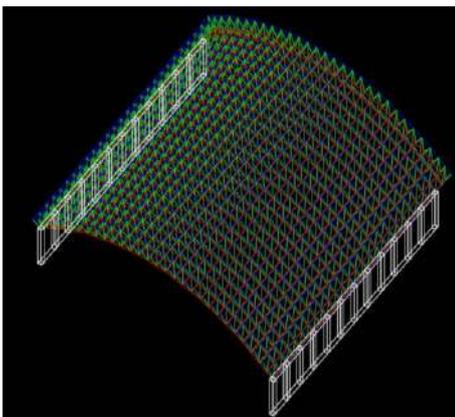
**METALKARMA** | engineering technologies  
pvt. ltd. India

# SPACE FRAME

**3D Bolted Ball Joint Structural & Roofing Solutions**

**Design, Fabrication, Installation**

**Saudi Arabia's Local Manufacturer**



# INTRODUCTION

We are one of the renowned & trading contracting groups from 1978 with a vision to provide trading activities all around in the Kingdom. The group initially started from the eastern province and established its headquarter in Jubail. With the passage of time we were successful in creating our goodwill and image in the Kingdom by offering variety of services in different sectors and areas of interest through the long term partnership with our stakeholders. We execute contracts and serve for the ultimate satisfaction of our valued clients.



After getting started in 1978 we continuously developed ourselves over the years due to sustainable growth and emerged as a group and now operate the following business activities namely.

- |  |  |
|--|--|
| 1. Development & Housing Project Division (DHPD)         | 11. Khonaini Travel & Tourism Agency (KTTA)                |
| 2. Khonaini Petroleum Services (KPS)                     | 12. Khonaini General Dispensary for Medical Services (KMC) |
| 3. Enterprises For Procurement and Construction (ENPAC)  | 13. Physiotherapy Medical Clinic ( PMC)                    |
| 4. Khonaini Group of Markets                             | 14. Jubail Automotive Maintenance Services (JAMS)          |
| 5. Khonaini Group of Pharmacies                          | 15. Al-Khonaini Leasing & Transportation Division          |
| 6. KHONAINI ST-1   | 16. Al-Khonaini Real Estate                                |
| 7. Jubail Cold Store (JCS)                               | 17. Globe Tech.  |
| 8. AL-Watan Stationery                                   | 18. Global Pipe Company                                    |
| 9. Elite Khonaini Saudi                                  | 19. Engion Khonaini  |
| 10. Khalid A. Al-Khonaini Partner's & Sons Company (KAK) | 20. Fahad Ahmed Al Khonaini and partners                   |

We are still looking forward to serve the future upcoming repair, maintenance and shutdown of existing oil/gas projects of ARAMCO and our target is to be a service provider in petrochemical industry order to do a preventive maintenance to get the plant operational.

Our aim is to provide the solution of small planet swiftly and positively.



FABRICATION, MAINTENANCE  
SPACE FRAMES PROJECTS  
3D Bolted Ball Joint Structural & Roofing Solutions

## CHAIRMAN'S MESSAGE

---



I feel pleasure in acknowledging that our remarkable success to date has been possible due to dedicated efforts of our business team. I look forward for our team to grow the group at an accelerated rate by addressing the un-tapped consumer needs of our target markets.

Since the establishment of our group, we strive to be one of the leading companies in metal trading, industry. With the grace of God, we observe the continuous and tremendous progress of our company as one of the most successful companies in this field after a long effort and perseverance. Over the years, we at Al-Khonani Group have successfully forged a remarkable reputation for our group by establishing high quality, flexibility and reliability in all our products and services.

We continue to operate in a number of core industries where our clear vision and strategy is trusted by our customers. This vertical and horizontal integration is underpinned by the strength of our products and services offerings which will continue to enhance in the future.

**KINDEST REGARDS;  
AHMAD HAMAD AL KHONAINI**

## EXECUTIVE DIRECTOR'S MESSAGE

---



It is my great pleasure to introduce you to FK Company. FK has gained a strong reputation in the field of fabrication, plant maintenance, pipe spooling and construction. Our company has consistently, year over year, developed new products worldwide while remaining profitable each year.

The employees and management of FK are dedicated to reclaiming their position as leader in the industry. For over years FK has been making significant contributions to industrial development in many fields. FK promise to continue making these contributions, while at the same time standing behind its quality and commitment to perfection.

So far FK has been a reliable name in construction and fabrication. Our clients rank us the best when compared with other groups and companies. However, with changing time competition has increased and new avenues opened.

It was with this new market environment that we prepared a new diversification strategy under which we aim at entering into new businesses and joining new national and international partners in joint ventures. We are determined to work hand in hand with our clients and other stakeholders to become one of the top companies not only in Saudi Arabia but in the entire GCC. Together with our clients and other stakeholders we are determined to be a key player in the Saudi and regional economy and share the fruits of success with our clients, employees and stakeholders.

**VERY SINCERE REGARDS,  
FAHAD AHMAD HAMAD AL KHONAINI**



FABRICATION, MAINTENANCE  
SPACE FRAMES PROJECTS  
3D Bolted Ball Joint Structural & Roofing Solutions



**METALKARMA**  
engineering technologies  
pvt. ltd. India

## VISION

- \* To be the best among leading engineering and contracting companies in the Kingdom and a sustainable growth oriented company.
- \* To become the most preferred EPC contractor and industrial services provider in the Middle East with focused energy and synergy.
- \* To achieve success with partners by adding value for our products with high quality and professionalism.

## MISSION

- To replace the outdated machines, structural parts, infrastructure and equipment with new or qualified on International standards.
- To provide maintenance service at higher efficiency and consistent quality with lower cost, meeting the Client's expectations.
- To provide excellence of services in manpower management.
- To bring right combination of people, practices, and assets.
- Effective mobilization of skilled construction teams and advanced methodologies in the Kingdom.
- To be one of the leading company in the Kingdom.
- Providing best Construction Project management services.
- To provide extraordinary expertise in sourcing, procuring, delivering, managing, and maintaining construction equipment, tools, supplies, and consumables.
- To reduce overall costs and improve efficiency.
- To fully utilize the company's resources.
- To enter into joint ventures with renowned companies.
- To take care of client's machinery and assets.
- To be the profit making company.
- Continue growth to become a market leader.
- Workmanship with high skills.
- Wisdom of professionalism.
- To accept the challenges with positive approach.

## FABRICATION

Fahad Khonaini fabrication shop and supporting facilities are strategically located in Jubail very close to major industries in Eastern province. Our shop is well equipped with overhead cranes, machines and latest welding technologies to meet our customer needs.

Our workshop, built for the manufacturing and refurbishment of heat exchangers, pressure vessels (Up to 2 meter diameter), pressure piping and storage tank part has a total covered shop floor area of over 2000 square meters, and a further open yard area of 8,000 square meters. The maximum under hook height is 6 meters

20 tons that is suitable for the repair / modification of stationery equipment

## TURN AROUND & MAINTENANCE SERVICE

Fahad Khonaini has dedicated resources to handle plant maintenance contracts (both Long Form and Short Form) in the areas of Turnaround & Inspection. Heat Exchanger Refurbishment, Storage Tank maintenance and Modification / Repair of Stationery Equipments. Our skilled crews are directly managed by experienced supervision and are supported by our fleet of latest construction equipment.

Our vast experiences gained by our resources will be provided high quality services not only routine maintenance, but time critical repair needs of Refineries / Petrochemicals plant process equipment including Storage Tank Batteries.

Fahad Khonaini has adequate resources to undertake construction projects in the area of Mechanical installation, large storage tank, space frame and process piping. The project management team ensures the timely and safe project completion to meet client's requirement and contractual obligation.

Fahad Khonaini has the capability to undertake major installation work including lift of heavy column, vessels, furnaces, exchangers stacks and site erection of structural steel, process piping and conveying systems. Our professional construction/ heavy lift team handles rigging procedure, safety and quality plan and perform all associated erection, alignment and final inspection works.

## **MECHANICAL INSTALL & PLANT CONSTRUCTION**

Fahad Khonaini has adequate resources to undertake construction projects in the area of Mechanical installation, large storage tank, space frame and process piping. The project management team ensures the timely and safe project completion to meet client's requirement and contractual obligation.

Fahad Khonaini has the capability to undertake major installation work including lift of heavy column, vessels, furnaces, exchangers stacks and site erection of structural steel, process piping and conveying systems. Our professional construction/ heavy lift team handles rigging procedure, safety and quality plan and perform all associated erection, alignment and final inspection works.

## **STORAGE TANK INSTALLATION AND REPAIR**

Fahad Khonaini had joint venture with Engicon, Belgium (Gelof) who is one of the leading International Storage Tank service providers capable to undertake from small site fabrication to complete new tank from constant fixed cone to floating and double deck roof type welded storage tank for oil and utilities industries.

All the tanks are designed in strict accordance with customer specification and international standards, such as API - 650. We have capability to design, fabricate and install even 100,000 cubic meter capacity storage tank.

## **SPACE FRAME(3D BOLTED BALL JOINT STRUCTURE)**

Fahad Khonaini has tie up with Metalkarma Engineering Technologies (MET), a leading manufacturing company having their manufacturing facility in INDIA to design, manufacture and install at site the prefabricated space frame components to form any geometrically definable space structure.

Metal Space Frame is a prefabricated three dimensional space frame system. There will not be a need for any additional work at site including touch up paint.

MET designed, supplied and installed space frame structure of complex geometries globally from 200,000 Sq mt in 2014 to 600,000 Sq mt currently.





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India

## ABOUT US

Fahad Khonaini has JV with Metalkarma Engineering Technologies (MET) , a leading manufacturing company having their manufacturing facility in India to design, manufacture and install at site the prefabricated space frame components to form any geometrically definable space structure.

Metalkarma Engineering Technologies (MET) is established 2014 as a manufacturing company to design, manufacture and assemble at site, the prefabricated space frame components to form any geometrically definable space structure. Being located in Bangalore, India MET has stamped swiftly its prominence in India and acquired the unquestionable leadership in space frame systems in the entire region by mastering the art and its innovative technology.

MET's , commitment to excel in quality and economy to exceed customer satisfaction coupled with its quest for R&D has resulted in a giant leap in its production & installation of space frame structures of complex geometries globally from 200,000 Sq mt in 2014 to 600,000 Sq mt currently.

Having two decades of experience and expertise with our partner, who have installed over 3,850,000 Sq mtrs. of space frames as of 2019, in all possible geometric forms and are tailored to meet the specific needs of its vast variety of customers in Middle East, Africa, and Asia ranging from small to large span areas.



## OUR EXPERTISE

### MET SPACE FRAME

MET Space frame is a prefabricated three dimensional space frame system in the true sense of the word. There will not be a need for any additional work at the site including the last layer of paint. It is being packed in a special way to protect the powder coated members from scratches, when loading / unloading with cranes or forklifts.

- \* **New Tech bolt system**
  - \* **In House developed software for space frame structure analysis, manufacturing Data & installation drawings**
  - \* **Proven supply of over 3.5 Million Sq.Mtrs. over 15 Years to Saudi Company.**
  - \* **Manufacturing capacity of 600,000 Sqr.Mtrs. per year.**
  - \* **Forging NODES / CONES / BOLTS / SLEEVE & Other components - In House Facility**
  - \* **Major pipe Suppliers within 5 kms with Just In Time Supplies**
  - \* **Faster delivery due to in house facility & stock of 1000 tons Components**
  - \* **Faster execution / Manufacturing**
  - \* **Faster erection at site**
  - \* **Structurally sealed hollow section prevents internal corrosion**
  - \* **Flexible smart 3D Structural solutions**
- Proven technology by international testing standards for over 20 years**

## INSTALLATION

These are carried out by a network of Qualified and Certified Builders working hand-in-hand with FAK to ensure satisfactory completion of works. Erection is generally categorized into three methods or combination thereof depending upon the actual site conditions namely: In-situ assembly from either full height mobile or fixed scaffolds.

Full assembly on ground and lift into position using appropriate sized crane.

Partial assembly on ground, lift into position by crane and complete assembly by mobile scaffolds.

The completed space frame will undergo full and comprehensive final inspection before hand over to clients





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India

## ADVANTAGES OF SPACE FRAMES

- Lighter and structually efficient.
- Lesser cost for larger span areas.
- Requires lesser number of columns supports.
- Pre - assembly allows project acceleration due to extremely low site erection time.
- Pre finished to avoid site painting & inspection.
- All service line can be run through frame.
- Simple modification or dis-assembly for re-use
- Deflection are very small



## APPLICATION OF SPACE FRAMES

- Auditoriums
- Convention centre
- Large passenger terminals for Airport / Airport Hangers
- Security entrance gate canopies
- School multipurpose halls
- Basketball /Badminton courts
- Toll Plaza, Mall Atrium
- Shopping Malls
- Gas or Petrol stations
- Metro Stations or Bus Stations,
- Pedestal Over Pass





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



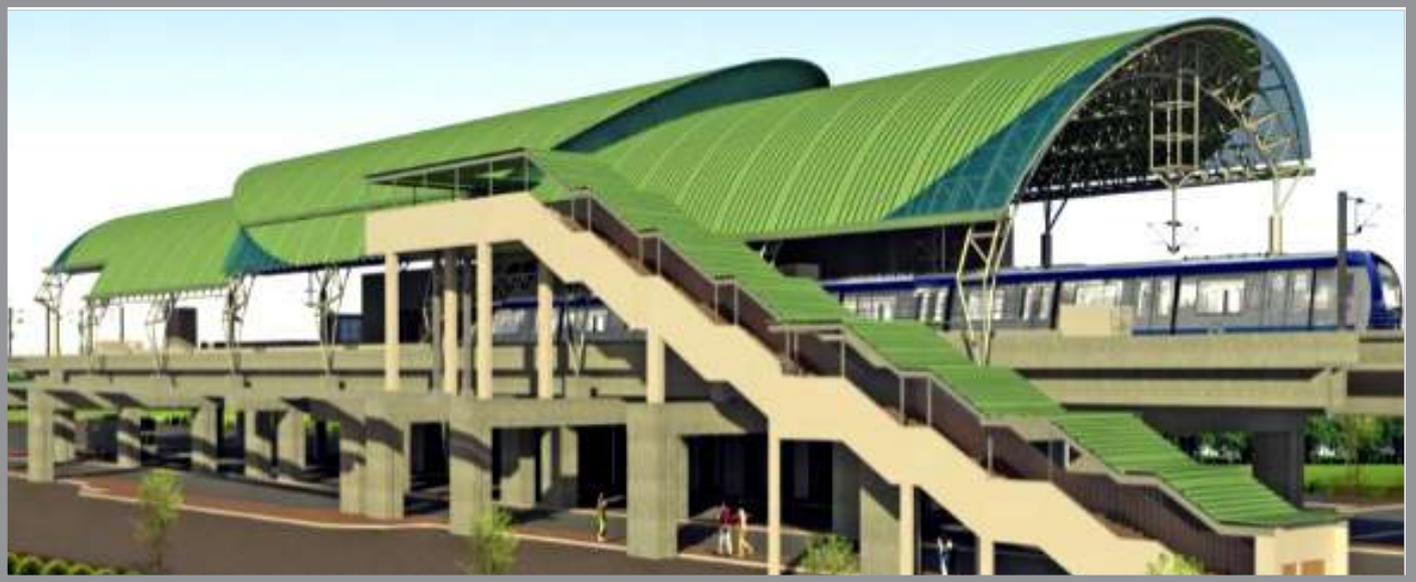
**METALKARMA**  
engineering technologies  
pvt. ltd. India



STADIUM



METRO STATION



PEDESTRAIN BRIDGE



TOLLGATES





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India



89.5 m



SKY LIGHT / ATRIUM



FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India

A U D I T O R I U M

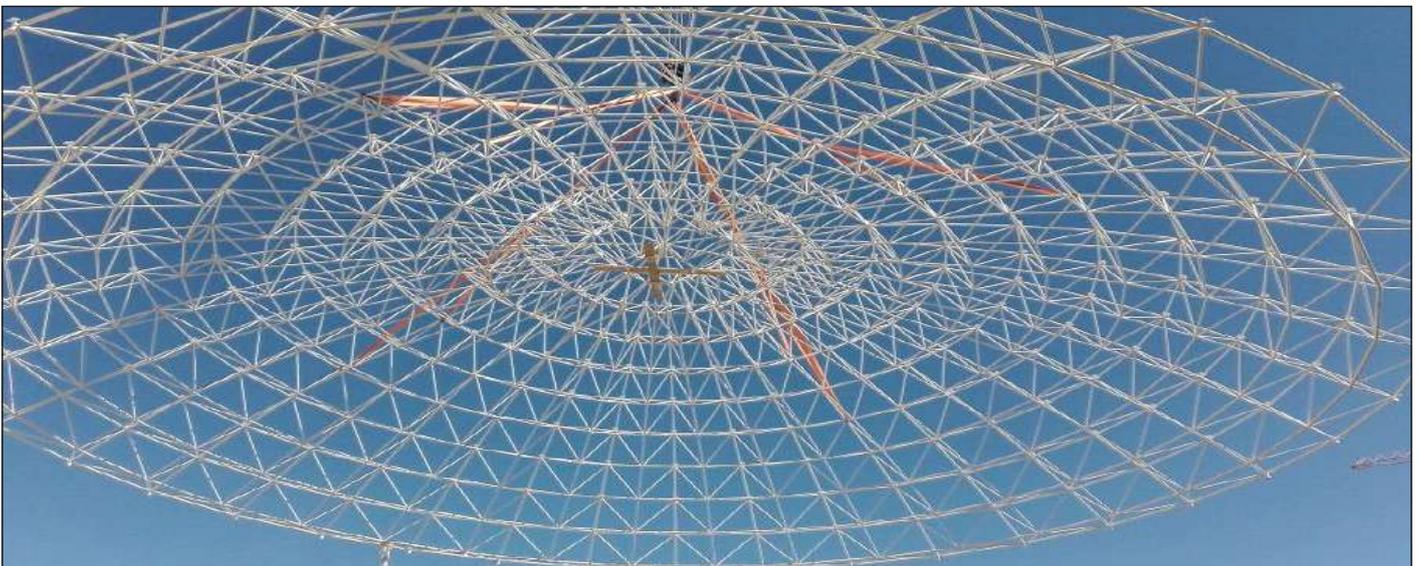




FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India



MEDICAL UNIVERSITY NAJJRAN



FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India

MEDICAL UNIVERSITY NAJRAN





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India



AIRPORT PTB & AIRPORT HANGERS



FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India

MINISTRY OF EDUCATION - SCHOOLS





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India



SECURITY ENTRANCE GATE CANOPY



FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India

SHOPPING MALL / HYPER MARKET





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India



EXHIBITION HALLS

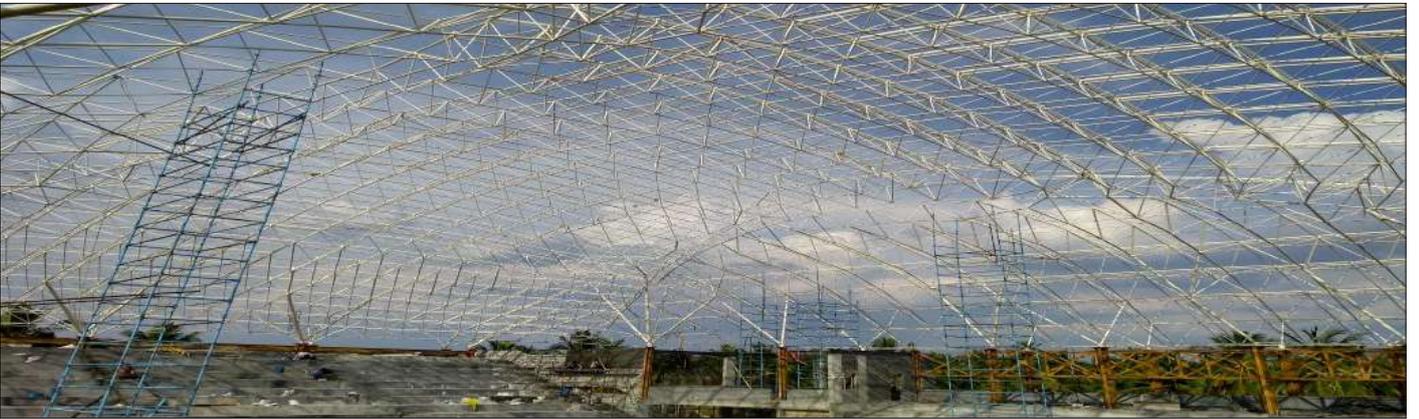


FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India

SPORTS STADIUM / MULTI PURPOSE HALL





FAHAD AHMAD AL-KHONAINI  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA



**METALKARMA**  
engineering technologies  
pvt. ltd. India



ROOF CANOPY



SCHOOL AUDITORIUM



SHAPED A UDITORIUM  
DOME





**FAHAD AHMAD AL-KHONAINI**  
AND PARTNERS INDUSTRIAL SERVICES &  
CONTRACTING CO. LTD. JUBAIL SAUDI ARABIA

JV TECHNOLOGY PARTNER



**METALKARMA** | engineering technologies  
pvt. ltd. India

**[www.fakhonaini.com](http://www.fakhonaini.com)**  
**[www.metalkarma.in](http://www.metalkarma.in)**



## Contact Details

**FAHAD AHMED AL KHONAINI & PARTNERS INDUSTRIAL SERVICES AND CONTRACTING CO. LTD**

**ADDRESS** : Building No.: 8833, Al-Ehsan Street  
Al-Wahah District, P O Box 30, Jubail  
Kingdom of Saudi Arabia - 35514

**PHONE** : +966 13 362 1404

**FAX** : +966 13 362 2746

**MOBILE** : +966 56 483 1333  
+966 54 400 3699

**EMAIL** : muhammad.sabir@fakhonaini.com  
sales1@fakhonaini.com,  
sales@metalkarma.in  
sales2@metalkarma.in