

# WME

## MEP

### Capability Statement



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# Business Summary

**WME is an independent multi-disciplinary consultancy providing Engineering Services for the built environment. We are based in the Middle East, India, Singapore and in the UK, delivering engineering solutions around the globe.**

WME is committed to providing a client-focused integrated service. Our structural, building services and infrastructure engineers have an excellent understanding of conditions and practices in the wider Gulf region, and a wealth of experience in international construction industries.

We work collaboratively with specialists in facade, fire, building physics, environmental and sustainability engineering.

WME's engineers are passionate about creative build ability.

We deliver practical cost-effective design solutions, developed through in-depth knowledge of best practice and an openness to innovation — at all stages of a project's development and in the most demanding of climates.

# Integrated Engineering

WME offers in house engineering services in structural and civil engineering, MEP engineering and sustainable design solutions and use key external specialists to provide façade solutions, fire engineering, building physics and infrastructure solutions.

Our collective design experience on the design of a broad range of project equates to an impressive track record in the delivery of an extensive portfolio of projects across a diverse range of sectors.

These include:

- Hospitality
- High-rise
- Commercial
- Educational
- Healthcare
- Industrial
- Manufacturing
- Mixed use developments
- Rail
- Residential
- Retail
- Sports and Leisure

# MEP Engineering Services

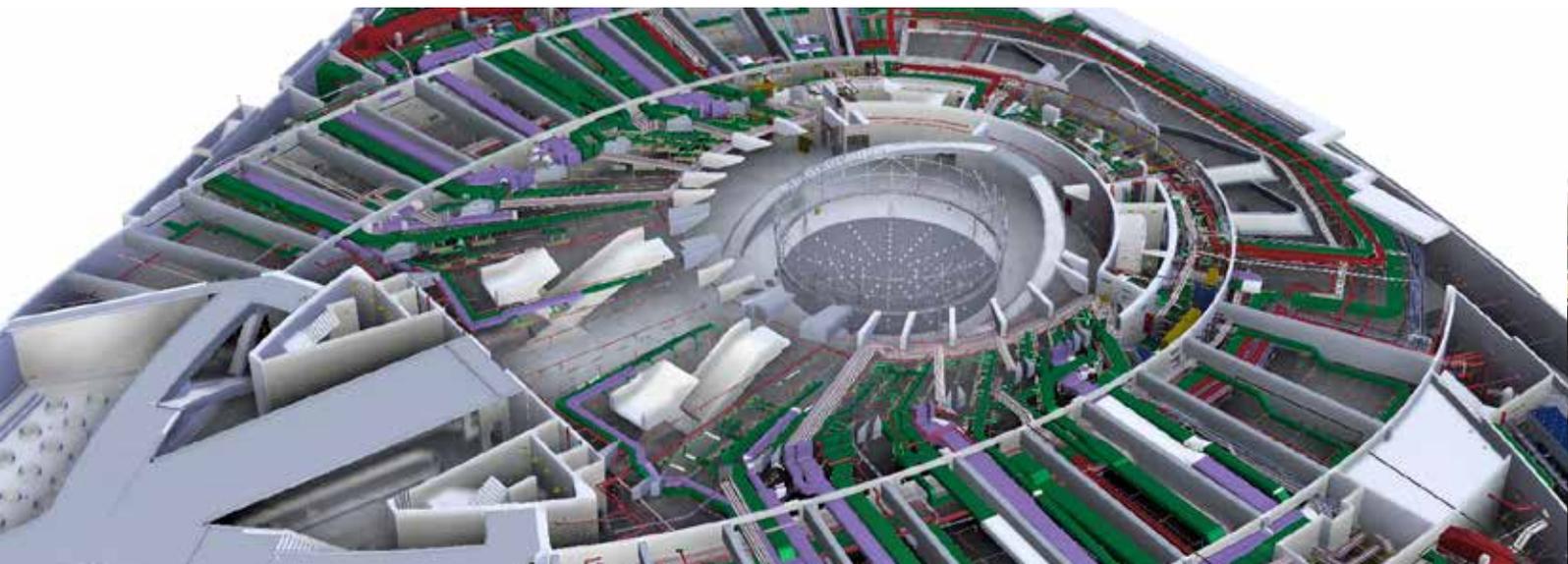
**WME provides building services engineering design for a wide range of building types, scales and climatic conditions, focusing on people-friendly low energy cost-effective solutions.**

Our engineers are highly experienced in the design of mechanical, electrical and plumbing (MEP) systems for office and workplace environments, for Residential projects such as high specification villas and high-rise accommodation, and for large commercial developments such as shopping malls and hotels — where we combine sensitivity to the requirements of individual users with those of building management.

WME's approach is client-focused, fast-track and climate-responsive. We optimise building services design, working towards the most efficient solutions for a particular project and its environment. Close attention to how a building will react to internal use and external conditions enables our engineers to design the

most appropriate cooling/heating, air handling, lighting, ventilation, water distribution and water use systems to achieve a low energy outcome. We are particularly experienced in the design of Low Energy Solutions for hot climates.

To achieve an integrated design, we work closely with clients, architects, contractors and our engineering colleagues, such as structural and AV-IT engineers. We use the latest building information software techniques in the development of options to enable informed decision-making, and for the co-ordination of project documentation.



# Sustainable Infrastructure

**WME integrated approach is to examine the requirements for the entire infrastructure system in order to strategically plan the infrastructure needs of the new developments.**

Within the studies WME infrastructure team is using the triple bottom line approach (economy, environment and community) to determine servicing alternatives that meet the sustainable vision. Sustainable planning principles that WME infrastructure team consider throughout all stages of the infrastructure planning and design include the following:

- Recognizing the reality of climate change and enhance energy efficiency;
- Preserving the existing natural environment;
- Maintaining the existing watersheds;
- Water conservation and water recycling;
- Ensuring long term water supply with high quality potable water;
- Using water and power wisely by introducing new high performance practices;
- Establishing procurement policies for products and materials;
- Meeting the needs of future residents while being cost-effective; and

- Protecting community well-being.

Applying these sustainable strategies make the new developments attractive, modern communities when coupled with the achievement of the following objectives:

- Provide natural flood protection to the future residents of the developments;
- Provide erosion protection under a range of storm events;
- Provide utility services in sufficient quality and quantity to effectively serve the proposed development;
- Provide efficient use of energy while encouraging the greater use of renewable energy sources;
- Provide for the forecasted the long term needs for potable water, wastewater, irrigation, power and telecom within the developments; and
- Protection of the natural environment



# MEP Capabilities

**WME's team of dedicated professionals has extensive tall building design and construction experience in both the Middle East and European Markets where we have been involved in the design of many residential buildings collectively. Our considerable experience ensures we are able to better understand and respond to the key client drivers in both the design and construction stages of project delivery.**

We understand that establishing a design that can be constructed quickly and efficiently within the constraints of budget, programme and maximised space efficiency for the intended use is essential to the success of projects. Our innovative, collaborative approach to design ensures that these crucial aspects are addressed from the outset of the design. We appreciate that all structures present unique design challenges. The effects of wind and earthquakes on the structural design of these building must be carefully considered in establishing appropriate structural solutions.

Our broad experience based on our completed projects means we have a sound understanding of all facets of structural framing options and their suitability for different building occupancies, heights, shapes to address gravity, wind and earthquake loads.

We embrace innovation and technology and utilise the latest in analysis and design packages such as Etabs, Safe and S Concrete to assist us in developing, testing and assessing structural framing solutions. Solutions developed must be appropriately buildable

as on typical high rise projects the completion of the superstructure is in the critical path.

Space and volume planning for technical service spaces, zoning of service and plant replacement strategies are some of the key challenges in establishing a viable Building Services strategy for a high rise buildings.

It is essential during the conceptual stages of the project that these key considerations are established in conjunction with design team. The experience of our team members ensures that through our collaborative working approach these aspects are integrated into the design in accordance with local regulations and requirements at the initial planning stages and refined as the design progresses.

Coordination of the design in any project is a major challenge. Our collaborative approach in house with other team members helps to drive the coordination process. This is enhanced by our use of BIM systems (Autodesk Revit MEP and Structures) for building services and structural design documentation. These powerful packages allow for coordination in 3 dimensions between disciplines resulting in a very high degree of coordination which limits queries and delays in projects onsite.

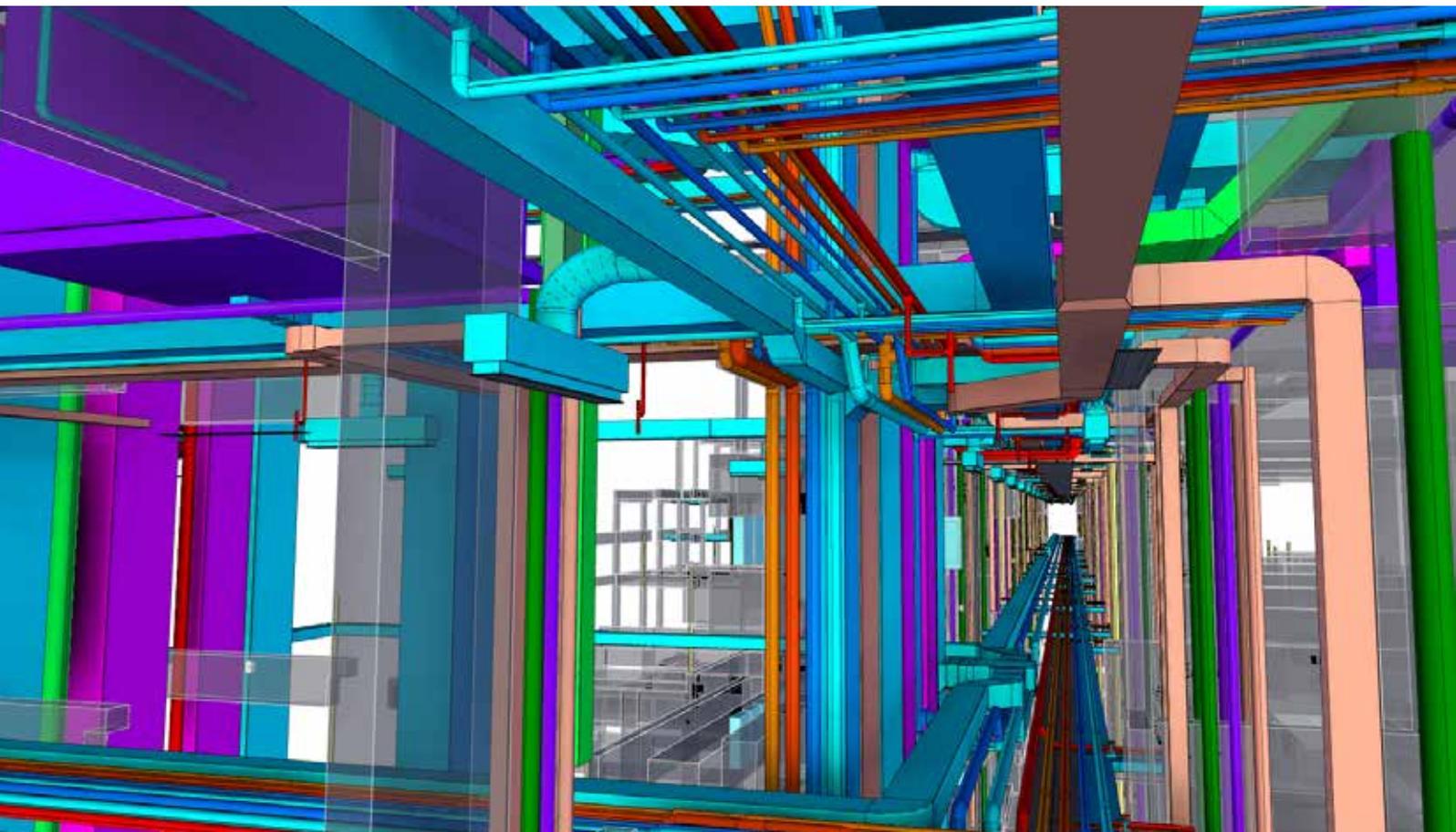
# Project Services:

- Structural Design
- Electrical Design
- Mechanical Design
- Sustainability Design
- Program Management
- QA/QC
- Project Controls
- Document Control
- Project Management
- Risk Management
- Engineering Management
- Construction Supervision
- Commissioning

# Our Project Team

**The highly skilled, experienced and client focused team at WME comprises of qualified engineers from a broad range of disciplines with decades of design experience gained from all over the world.**

We are committed to the use of innovative engineering software in our designs and utilize the latest three dimensional Building Information Modelling (BIM) technology to increase productivity in the design and construction stages and mitigate possible clashes before the design is implemented on site.



# Roads & Infrastructure Capabilities

**WME provides road and infrastructure engineering services for individual construction projects of all sizes, including large-scale municipal and government works.**

worked on multidisciplinary development and environmental projects throughout the Middle East and internationally.

Our comprehensive range of services includes design of roads and highways, pavement design, signage strategies & markings, road safety & capacity improvement schemes, parking areas, pedestrian and bicycle routes, street lighting, development of grading plans and earthwork calculations, analysis and design of storm water drainage systems; water distribution networks for potable water, firefighting and irrigation; gravity and pressurized systems for wastewater collection and transmission, design and co-ordination of power and telecommunications infrastructure, and post contract supervision of infrastructure projects.

Our highly experienced road & infrastructure team supports projects through all phases of delivery, from planning and feasibility studies through concept, preliminary and detailed design, construction and commissioning.

We also have the expertise to review and analyse projects at a higher level with the understanding necessary to evaluate effectiveness and economic of large-scale designs.

WME's road & infrastructure experts have in-depth experience in the design of highway and utility networks — such as urban & rural roads and links, trunk water mains and sewers, sewage pumping stations and subdivision infrastructure — and have

**Project Services:**

- Complete design of rural roads, highways and streets
- Interchange & junction design
- On- and off-street parking design
- Vehicle swept path analysis
- Pedestrian and bicycle routes
- Road safety
- Street Lighting Design
- Civil Engineering Services for Land

**Other Project Services:**

- Structural Design
- Electrical Design
- Mechanical Design
- Sustainability Design
- Program Management
- QA/QC
- Project Controls
- Document Control
- Project Management
- Risk Management
- Engineering Management
- Construction Supervision
- Commissioning

**Development & Infrastructure Projects**

- Due Diligence
- Design Review
- Site Planning
- Support Permitting
- Erosion & Sedimentation Control Design
- Grading Design and Earthworks analysis
- Storm Water Management (Detention / Retention Ponds)
- Storm Sewer Drainage Design
- Site Development
- Utilities Design (Potable Water, Fire Hydrant Network, Sanitary, Irrigation, District Cooling, Natural Gas, LPG)
- Pump Stations
- Site Logistics Studies



# The Address Residence Fountain Views - Downtown, Dubai, U.A.E.



**Our structural and building services engineers are working on the detailed design of four super-high rise towers in Downtown Dubai, the highest of which is The Address Residence, which will stand at 315m with 70 floors for Residential and 80 floors for Hotel tower.**

The concrete frame towers share a podium that accommodates three basement levels, retail areas and 11 parking floors, as well as building services installations. The podium links to the adjacent

Dubai Mall. The complex will be connected to the local district cooling network and, as the towers are so high, ensuring that returning water temperatures are at acceptable levels is a challenge.

Design work continues while construction is proceeding on site, with one main contractor and four MEP contractors. This is Emaar's largest project to date and completion is scheduled for 2019.



## Project Details

- Client: Emaar

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- Architect: Dewan Architects & Engineers

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- Services: Structural Engineering, Building Services

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# The Palm Hotel

## Palm Jumeirah, Dubai, UAE



The 45-storey concrete frame Palm Hotel will occupy a section of the Nakheel Mall site in the 'trunk' of the man-made Palm Jumeirah island complex.

Our structural, building services fire engineers, sustainability and AV/IT consultants, will take the project from concept stage to tender and supervision. The tower will deliver 300 hotel rooms and 200 serviced apartments, and is surrounded by the mall, roads and older residential

developments — making it 'land-locked' from a building services point of view.

In addition, its location means that installations such as plant need to be protected from the harsh salty sea air. Part of our work will involve helping the client develop a new hotel brand by assisting them in getting to grips with operator requirements as the project proceeds, advising them on each aspect.



## Project Details

- Client: Nakheel

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- Architect: RSP Architects

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- Services: Structural Engineering, Building Services, AV/IT + Security Engineering, Roads + Infrastructure, Fire Engineering, Sustainability

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# Kings College Hospital & Clinics

Dubai Hills, U.A.E.



WME has been appointed to deliver a full range of engineering services for the first full-scale Kings College Hospital to be constructed outside the UK, along with three polyclinics.

The specialist hospital will accommodate 100 beds in phase one and a further 80 beds in a second phase. It will also provide 20 outpatient clinics, an intensive care unit, a radiology department, five operating theatres and a specialist oncology treatment centre.

The site it will occupy is small, which makes phasing of the works a challenge considering the highly technical nature of the building and its usage.

To allow the hospital to operate while phase two is constructed, a substantial part of the overall plant and basement facilities will be delivered in phase one. We will also be working on the roll-out of the polyclinics at various sites in Dubai. These provide outpatient services and patient follow-up requirements.



WME is working closely with the KCH Board and US healthcare specialist architect Perkins+Will. Our services include structural, building services, AV-IT, roads and infrastructure engineering, plus fire, vertical transport, lighting, facade and sustainability engineering. We are also acting as architect of record.

## Project Details

- Client: Ashmore Healthcare

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- Architect: Perkins + Will

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- Services: Structural Engineering, Building Services, Av/It + Security Engineering, Road + Infrastructure

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# AWR Business Bay Five Star Hotel

## Business Bay, Dubai, U.A.E.

**The development is a prestigious five star Hotel building located on Shaikh Zayed Road in the Business Bay area.**

It is 474 metres high and is comprised of seven basement levels, ground floor, 3 podium and 98 floors. The tower is considered predominantly a residential building (hotel and hotel apartments).

The basements house car parking and MEP areas while the podiums have exclusive Restaurants,

Banqueting and Recreational facilities. The remaining 98 floors are Hotel and hotel apartments. There are four intermediate plant levels along the height of the tower.

**Client: AWR**

**Architect: Arif & Bintok**



# Kaaki Hotel Development Services

## Makkah, Saudi Arabia

**The Kaaki development in Makkah consists of a 3-star hotel intended for pilgrim tourism use, spread across 14 blocks on a single site. WME is working on the building services design for the project, which will deliver approximately 12,000 hotel rooms.**

The project is very large and our client is naturally focused on keeping control of costs. We undertook thorough cost reviews during the options assessment phase, presenting these together with

operating costs to ensure appropriate system selection.

The developer has grouped the projects' buildings into 'packages' to enable smooth transitions to private ownership should that be required. Building information modelling (BIM) is being used to deliver the project.

**Client: YALJ**

**Architect: HKR**



# La Ville

## City Walk, Dubai, UAE

**In 2013, we were appointed to undertake the preparation of a tender package over a 10 week period for the construction of an eight-storey hotel, the design of which had already reached schematic stage.**

The 86-room hotel, with 68 serviced apartments, will be operated by Marriott and is located just off Sheik Zayed Road, near the World Trade Centre roundabout. A spa building adjoins the complex. We are providing structural, building services, vertical transport and acoustic engineering,

starting with a peer review of the existing scheme and value engineering, and taking the project to completion. An enabling works package has also been prepared so that a contractor can join the team at an early stage.

**Client: Meraas**

**Architect: Woods Bagot**



# Ocean View Hotel

## Dubai Marina, Dubai, UAE

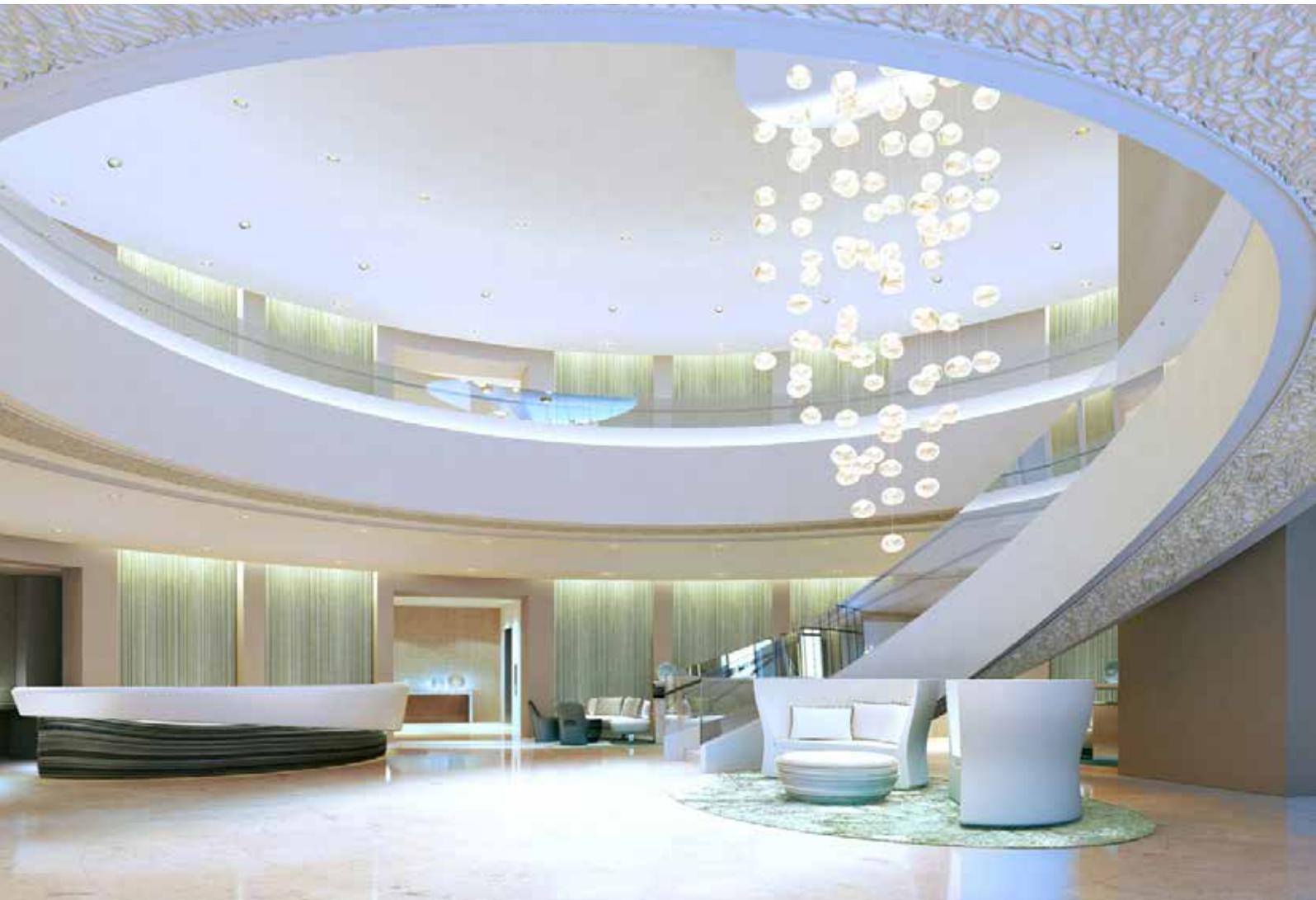
**The hotel group Jebel Ali acquired a 250-room four star hotel in the Jumeirah Beach Residence area of Dubai that had been completed but not occupied.**

WME undertook structural and building services engineering for the refurbishment of the complex, which has been completely re-fitted. Detailed surveys were carried out, as accurate drawings were not available. Structural work included the addition of a new steel staircase to the lobby, requiring a new void in the post-tensioned slab. As

much as possible of the original MEP installations was recycled, modifying equipment as necessary. All interior finishes and the reflected ceiling plans have been changed to suit the hotel's new identity.

**Client: Jebel Ali Group**

**Architect: Woods Bagot**



# Hilton Al Hamra Resort Refurbishment

## Al Hamra, Ras Al Khaima, UAE

**The former Al Hamra Fort Hotel (now Hilton Ras Al Khaimah) has been significantly upgraded by owner Al Hamra and operator Hilton to meet Hilton's exacting international standards.**

Building services refurbishment throughout the complex has included all aspects, notably power, water and standby cooling installations. We also undertook some minor structural works.

Challenges include budget constraints and the complex co-ordination required between the

owner, operator, engineers and contractor. The beach-side hotel provides 150 standard rooms, 200 villa rooms, four restaurants and a conference centre.

**Client: Davis Langdon**

**Architect: AukettFitzroyRobinson**



# Rosh Rayhaan by Rotana

## Olayya Street, Riyadh, Saudi Arabia

**Making good use of an already-completed office block structure, the Rotana Hotel organisation planned the new 350-room, five star Rosh Rayhaan for delivery in 2014.**

WME was contracted by IPM International for the building services engineering and for minor structural alterations. The adaptation from office use to hotel use brought challenges such as deficiencies in head height allowances to public areas and kitchens, and highly complex co-ordination issues. Our experienced consultants

led the whole design team, ensuring co-ordination with the existing structure maximising its assets and avoiding installation clashes.

**Client: IPM International**

**Architect: U&A Architects**



# Le Royal Meridien Refurbishment

## Abu Dhabi, UAE

**We provided building services and fire engineering for the refurbishment of the Le Royal Meridien Abu Dhabi, one of the first five star hotels in the city.**

Work has included an upgrade to front of house zones, reconfiguration of the restaurant areas, new food outlets in former retail spaces, and remedial works to guest room water pressures and hot water temperatures.

Where appropriate, existing air handling units have

been reused. Ventilation and general power supply has been increased to food preparation areas.

**Client: Le Meridien**

**Architect: LW Design Group**



# The Address Hotel Retrofit

## Downtown, Dubai, U.A.E.

**This unique project required the MEP engineering to be actively involved in analysis techniques that would not normally exist in other projects. This included techniques from manufacturing industry such as differential scanning calorimetry to determine the 'thermal history' of samples.**

Also, bespoke techniques were implemented such as oxidation induction time (OIT) measurement to ensure life time of particular retained elements.

The complexity and high-quality standards of the project did not alleviate the team from its obligation towards programme and budget. The collaborative working enabled seamless transfer of information within the MEP team and meant greater coordination with other disciplines and thus, leading to an effective streamlined programme.

**Client: Emaar**

**Architect: Aecom**



# Holiday Inn and Staybridge Suites - Aviation City, Dubai, UAE



**The Holiday Inn and Staybridge Suites development combines two similarly sized buildings, one for 4-star hotel accommodation and the other for residential use.**

They comprise two basement levels for parking, and ground, mezzanine and seven upper floors — served in common by centralised infrastructure. Swimming pools are located on level one of the hotel building and level four of the serviced apartments.

Both buildings are concrete frame, with a flat slab floor system supported on concrete walls and

blade columns. The aims of the structural design included minimising floor depths and maximising formwork reuse. Long span transfer beams are used to achieve various architectural design elements.

For this project, the client is the main contractor and operator.

Optioneering has been fundamental to finding the best solutions on the client's behalf for all building services systems, through balancing capital and projected operational costs.



Efficiency measures include the hot water production system, energy for which is generated by the use of heat recovery by the air-cooled chillers.

## Project Details

- Client: Ishraq Dubai LLC

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- Architect: RMJM Architects

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- Services: Structural Engineering, Building Services, Road + Infrastructure Engineering, Architect Of Record, Acoustics, Fire Engineering, Vertical Transportation

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# Makkah Technology Valley Mixed Use Development

## Umm Al Qura University, Saudi Arabia

**WME's structural and MEP engineers are working on a pair of concrete frame buildings that share basement parking in Makkah, Saudi Arabia (KSA). The project is located on a plot as yet unserviced, and the infrastructure will be implemented according to our specifications, so we are ensuring that the building services design is optimised.**

The first building accommodates an hotel, with front-of-house on the ground floor and nine levels of rooms above. The operator will be Millennium Hotels. Serviced apartments, varying in size from studios to three-bed, occupy the five upper floors

of the second building, with retail units at ground level. A concrete deck, steel frame link bridge is provided between the buildings at level two. One challenging aspect of the hotel design is the co-ordination of the structural work, as floor plate areas increase in four steps as the building rises. Tapering concrete cantilevers of up to 6.5m are used at every fourth level, beginning with level five at 25m above the ground. These transfer structures are 3.5m deep, tapering to 1.8m deep at their furthest extension.

**Client: Makkah Technology Valley Company**

**Architect: HOK**



# Jeddah Pearl Hotel and Serviced Apartments

## Pearl Island, Jeddah, Saudi Arabia

**Jeddah Pearl Client Development in Jeddah, KSA consists of 5 star hotel tower, Residential/ Serviced apartment Tower and five levels of podium.**

The hotel consists of basement parking, ground floor front of house areas and 24 levels of guestrooms, amenities & conference rooms. There is no operator in place at the time of preparing this document. The serviced apartments and the residential are in a separate tower Ground +16. All

are served with two levels of car parking. The retail covers podium levels with the basement carpark. The hotel royal suite is to be serviced via blastproof enclosures and 100 back up systems. The high end Façade is key to the clients vision therefore integration of the MEP systems into the Façade is fundamental within the design. The project is LEED Silver.

**Client: Confidential**

**Architect: DSA Architects**



# Villa 360

Palm Jumeirah, Dubai, U.A.E.

The 5 bedroom villa is 450m<sup>2</sup> is currently under construction on the Palm Jumeirah, Dubai. The design was undertaken as a fast track project and encompasses systems such as VRV, solar panels, high spec AV and smart homes designs.

Client: 360 Real Estate

Architect: LW Design Group



# Shukri Villa

Jumeirah, Dubai, U.A.E.

The design of this 5 bedroom villa which stands at 650m2 was led to ensure all services were completely concealed. WME worked closely with the interior designer to find solutions that could be hidden to the eye whilst giving the best technical performance.

**Client:** Shukri All Baiakh

**Architect:** LW Design Group



# Mahmood Villa

Al Barsha, Dubai, U.A.E.

The 4 bedroom villa is 550m<sup>2</sup>. The operator requested lots of open spaces and full perimeter glazing throughout. Trying to diversify and reduce the high cooling requirements where met with a series of modelling scenarios which eventually allowed the team to present the most environmental solutions to the client.

Client: Mahmood Saleh Mohammed Alabdi

Architect: LWD



# Sobha Villas

## Meydan City, Dubai, U.A.E.

**In a fast track project that provides 12 villa types for the first phase of the huge commercial housing development Sobha City, WME's structural engineers have been working with the design team to deliver cost-efficient solutions that maintain individuality but retain the advantages of repetition.**

The two-level villas include lap pools and are concrete frame on flat slabs — a straightforward solution. However, the designs have had to overcome significant difficulties with ground

conditions, which include loose soil and a high water table.

**Client: Sobha Developers LLC**

**Architect: PNC Architects**



# Al Mehairi Villa

Mirdiff, Dubai, U.A.E.

The 450m<sup>2</sup> villa owner was himself a supplier of package units, which whilst not being the best solution for space and reticulation was the most economical for him. The high spec villa encompassed new smart homes systems to ensure all systems could be controlled from multiple points internally and remotely to allow the end user full control flexibility.

**Client:** Majid Al Mehairi

**Architect:** U&A Architects



# Dubai Hills Villas

## Dubai Hills, Dubai, U.A.E.

**Working with lead consultant RSP Architects, our structural and building services engineers have completed the schematic design of the prototype villas that will be sold from plan for the exclusive Dubai Hills project.**

The six concrete frame designs feature 4-9 bedrooms, open column-free living areas, cantilevered balconies, fully glazed façades and outdoor swimming pools.

MEP services are fully integrated, with full user

control in each room. Robust AV/IT and security systems are included, and all the villas are Dubai Green Building compliant. The Dubai Hills project is expected to be completed in 2015.

**Client Emaar**

**Architect RSP Architects**



# Villa Pandre

## Palm Jumeirah, Dubai, U.A.E.

Villa Pandre is a 2,100 sq m high-specification villa on Palm Island in Dubai. To reduce the effect of air draughts and provide comfort cooling, the walls and ceilings are chilled. The very latest technology has been used for the services installations, including low energy LED lighting fixtures.

Client: Paul Grootaers

Architect: LW Design Group

Lighting control is integrated with an IT system that can be commanded remotely by computer or tablet using the Internet. Media systems are delivered from a central storage location connected to individual AV zones, and the villa is fully monitored by a security system, also controlled remotely.





# Key Staff

Every business needs a strong management team to drive the growth and development of the business and to create a positive working environment.

At WME, our directors are all experts in the field, having worked for many years in the engineering industry. Our 'hands-on' approach to service delivery ensures that projects are effectively managed, meet our client's requirements and afford the very best levels of service at all stages of the project.





## Peyman Mohajer (MSc BSc CEng FICE FStructE)

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**Position:** Managing Director | **Experience:** 30+ years

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Peyman Mohajer is highly experienced in the design and delivery of construction projects in a diverse range of global markets, including the commercial, hospitality and residential sectors. In his 30 years' experience — 21 years in the Middle East — he has worked on many challenging high rise structures that feature complex geometry. Examples include UBORA and Damac Towers in Dubai. Peyman was regional managing director for the Middle East of UK multidisciplinary consultancy Whitby & Bird, and later for Ramboll post-merger. He oversaw both practices' exponential growth in the region for high-quality robust engineering services. In 2010, he founded WME, on the back of his previous leadership and delivery roles in the region.



## Louise Collins (BEng (hons), MASHRAE, MCIBSE)

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**Position:** Director of Projects | **Experience:** 15+ years

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As WME's Director of Projects, Louise Collins combines client liaison and business development with high-level management of project delivery. She joined WME at its founding, and is a highly experienced engineer with particular skills in project management and service delivery co-ordination.

Louise works closely with our clients, ongoing and prospective. She helps lay the groundwork for projects at planning stages, then ensures that clients are well informed in relation to project progress and any potential risks — and uses interaction and technical feedback from this liaison process to improve the way WME delivers its services.

Trained in building services in Dublin and Glasgow, Louise has been based in the Middle East for over 15 years. She has been instrumental in WME's success in delivering low energy projects in hot climates, such as the Swiss International Scientific School Dubai — the first buildings in the Middle East to be certified by the MINERGIE Association, Switzerland. She continues to enjoy the challenges of meeting difficult targets and working with new technologies, especially if they support fundamental changes for the better in the way a building works.



## Nicholas Byczynski (MEng, CEng, MCIBSE)

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**Position:** Director MEP | **Experience:** 15+ years

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Nicholas is a highly experienced Chartered engineer and Fellow of CIBSE with over 15 years' experience in the Middle East leading the MEP teams in the design of high value projects across a range of sectors, particularly Hospitality, Residential, public amenities and Retail. Reporting to the Managing Director, Nicholas has responsibility for the management and delivery of the MEP team at WME focusing on technical excellence in design and energy efficient building services. Nicholas has extensive experience managing large teams in multiple geographical locations with experience in the delivery of diverse projects from a 500,000m<sup>2</sup> Hospital project involving teams in Riyadh, UAE and Manila to signature buildings at the Expo 2020 site.

He is experienced in dealing with international clients and architects and operating as Project Manager on multi - disciplinary design works outside of the Building Services field.

At every opportunity Nicholas has embraced low energy building design with sometimes pioneering use of a range of sustainable building techniques including natural ventilation, solar thermal, PV, Rain water recycling, concrete core cooling and advanced chiller system integrated controls.



## Farhad Pazoki BSc, MSc, CEng, MStructE

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**Position:** Technical Director Structures | **Experience:** 25+ years

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Farhad Pazoki is focused on the delivery of the best possible technical solutions, developed through close understanding of the key objectives of clients and architects. His 25 years' experience in design and management includes extensive work with high rise structures, and projects in the residential, commercial, and sports & leisure sectors.



## Gary Sneddon BSc MIET ACIBSE, IEng

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**Position:** Director AV/IT Solutions | **Experience:** 30+ years

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Gary is a professional MEP & IT Engineer with more than 30 years of experience in Building Services with a passion for quality and high standards in all aspects of the industry. As Director for WME Saudi Arabia and Departmental Director for the AV/IT Solutions, he is responsible for the everyday design operations, and Business Development in the UAE and KSA. A particular focus is on the Mission Critical, Commercial and Hospitality sectors. Gary has a comprehensive knowledge of designing and developing, Electrical, IT and Data Centre systems and components to professional certified standards.

Trained in Edinburgh and Leeds, Gary has worked extensively throughout the UK and Europe and has been based in the Middle East for over 4 years.

Gary has a wide experience as lead design consultancy in large building projects, throughout the UAE, UK, France and Saudi Arabia.



## Sasa Popovic C.Eng., MIStructE, Struct.Eng., PEng

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**Position:** Director Structures | **Experience:** 25+ years

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Saša is a professional structural engineer with over 25 years of experience designing and managing structural engineering projects. His experience includes seismic engineering, retail buildings, airport concourse buildings, health sector buildings, commercial and residential buildings, water retaining and water treatment structures as well as pedestrian and road bridges. Saša has developed strong technical and project management experience working in several building sectors, several geographical areas (Europe, North America, Africa, Middle East, Central Asia) as well as utilizing all traditional construction materials and numerous structural forms.



## David Barley BEng (Civil & Str) CEng MStructE

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**Position:** Director Structures | **Experience:** 24+ years

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As a Director at WME, David provides a combined role acting as Project Director on complex multi-discipline builds, upholds overall responsibility for WME site supervision and post-contract services teams, as well as retaining cross discipline responsibility for negotiating and overseeing the implementation of contracts within the business in the region. He delivers high-level project leadership and management on his projects. With his attention to detail, he maintains a continual personal involvement in each project, from initial bidding process right through to final delivery on site. Through close liaison with the Client and his deep understanding of cross-discipline design requirements, he ensures timely delivery of a high-quality, coordinated design product.



## Murali Guruvappan BE Civil, M.Eng (Structures), CEng, MStructE

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**Position:** Director Structures | **Experience:** 20+ years

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Murali Guruvappan is a Director of Structures at WME and is based in Dubai. Murali has been integrally involved in the firm's client relations in Middle East and India. Murali leads the WME India business for regional development and supporting WME's Global growth.

Murali has over 20 years of international civil and structural engineering experience in the projects located in USA, India, Middle East and the UK. Murali has significant experience in analysis and design of various structural systems for low to super tall building structures. He is skilled in the design of buildings for hurricane winds and seismic activity. Murali managed and delivered many large-scale projects including multi-storey developments up to 10 million square feet and towers up to 111 stories.

Murali frequently lectures at industry conferences and events, including IStructE and CTBUH. He promotes the development of bespoke structural engineering solutions that creates cost-effective and innovative designs.



## Dimitre Azmanski MSc P. Eng

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**Position:** Director Infrastructure & Roads | **Experience:** 27+ years

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Dimitre Azmanski is a registered Professional Engineer in the province of Ontario, Canada and an affiliated member of the Society of Engineers in UAE. He has extensive experience in design and project management bringing a project from vision through the planning, funding, design and execution. Dimitre has more than 27 years of continuous international experience from Europe, North America, and the Middle East, working on variety of prestigious multi-disciplinary projects.

Having responsibilities for key development areas of business, quality and training, he leads the WME professional team of engineers specialized in roads and infrastructure.

Dimitre's vast professional experience covers all aspects of the engineering consultancy including preparation of scope documents and specifications, feasibility studies and analyses, infrastructure master planning, due diligence reports, third party design reviews, site grading analysis, earthwork cut and fill calculations, roadway designs, stormwater management and drainage, designs of water distribution networks for potable water, irrigation and fire-fighting, design of pump stations and force mains, contract administration and construction supervision.

# Professional Insurance



Paid Up Capital: Dhs. 500,000,000

Registered under Federal Law No. (6) of 2007  
Certificate No. 14 dated 29<sup>th</sup> December 1984  
Commercial Registration 51814

رأس المال المدفوع: ٥٠٠,٠٠٠,٠٠٠ درهم  
مسجلة طبقاً للقانون الإتحادي رقم (٦) لسنة ٢٠٠٧م  
شهادة رقم ١٤ بتاريخ ٢٩/١٢/١٩٨٤م  
رقم السجل التجاري ٥١٨١٤

Dated: 18<sup>th</sup> June 2019

## CERTIFICATE OF INSURANCE

### TO WHOM IT MAY CONCERN

We confirm that **WME Consultancy LLC, Abu Dhabi and/or WME Engineering Consultants, Dubai** is insured with us under Professional Indemnity Insurance Policy as per following details;

<b>POLICY NO:</b>	<b>P/01/6004/2014/59</b>
<b>INSURED:</b>	<b>WME Consultancy LLC, Abu Dhabi and/or WME Engineering Consultants, Dubai</b>
<b>ADDRESS:</b>	<b>P.O. B.O.X. 26739, Dubai, UAE</b>
<b>PERIOD:</b>	<b>12 months from 1st of July 2019 To 30<sup>th</sup> June 2020 Both days inclusive Local Standard Time at the address of the insured</b>
<b>LIMIT OF INDEMNITY:</b>	<b>GBP. 7,500,000 any one claim and unlimited in the aggregate including costs and expenses</b>
<b>INSURED BUSINESS ACTIVITIES:</b>	<b>Consultancy services (Design, Supervision of Construction)</b>
<b>COVER:</b>	<b>To Indemnify the insured in respect of any negligent act, error or omission arising out of their business activities during the policy period as per standard policy wordings</b>
<b>EXCESS:</b>	<b>USD. 50,000 each and every claim including costs and expenses</b>
<b>TERRITORIAL LIMITS:</b>	<b>Worldwide including Kingdom of Saudi Arabia and Excluding USA/Canada</b>
<b>LAW &amp; JURISDICTION:</b>	<b>Worldwide including Kingdom of Saudi Arabia and Excluding USA/Canada</b>

This certificate is issued at the request of the Insured and terms & conditions of original policy/Endorsement shall prevail.

For Orient Insurance PJSC

  
Authorised Signatory



Orient Insurance PJSC (Lead Office) Dubai Festival City  
P.O. Box 27966, Dubai, UAE.  
Tel +971 4 253 1300, fax +971 4 253 1500  
e-mail orient@alfuttaim.com www.insuranceuae.com



اورينت للتأمين - شركة مساهمة عامة (الكتب الرئيسي) دبي فيستفال سيتي  
من ص.ب. ٢٧٩٦٦ دبي. إ.ع.م.  
هاتف: +٩٧١ ٤ ٢٥٣ ١٣٠٠ - فاكس: +٩٧١ ٤ ٢٥٣ ١٥٠٠  
e-mail orient@alfuttaim.com www.insuranceuae.com



# Trade License



## رخصة مهنية Professional License

### تفاصيل الرخصة / License Details

License No.	665779	رقم الرخصة
Trade Name	W M E ENGINEERING CONSULTANTS	الإسم التجاري
Legal Type	Civil Company	الشكل القانوني
Expiry Date	15/02/2020	تاريخ الإصدار
D&B D-U-N-S® No	0	رقم الرخصة الأم
Register No.		عضوية الغرفة
	تاريخ الإنتهاء	Issue Date
	رقم العالمى	Main License No.
	رقم السجل التجارى	DCCI No.
		رقم الرخصة
		أعمال مدنية
		دبلو ام اي للاستشارات الهندسية
		رقم الرخصة الأم
		رقم الغرفة

### الاطراف / License Members

Share / الحصص	Role / الصفة	Nationality / الجنسية	Name / الإسم	No./ رقم الشخص
51.00%	Partner / شريك	United Arab Emirates / الامارات	ابراهيم صابر محمد صابر اميري (51.00%)	12442
49.00%	Partner / شريك	United Kingdom / بريطانيا	بيمان مهاجر (49.00%)	181663
	Manager / مدير	United Kingdom / بريطانيا	بيمان مهاجر	181663

### نشاط الرخصة التجارية / License Activities

Buildings Electrical Engineering Services	خدمات هندسة كهرباء المباني
Construction Engineering Services	خدمات هندسة إنشاءات الأبنية
Architectural Design Consultancy	إستشارات هندسة التصميم المعماري
Road & Traffic Engineering Services	خدمات هندسة الطرق والمرور
Building Mechanical Engineering Services	خدمات الهندسة الميكانيكية للمباني
Water, Sewage & Irrigation Engineering Services	خدمات هندسة المياه والصرف الصحي والري

### العنوان / Address

Phone No	971-4-3881616	تليفون	P.O. Box	26739	صندوق بريد
Fax No	971-4-3806161	فاكس	Parcel ID	343-476	رقم القطعة
Mobile No	971-50-6559501	هاتف متحرك			مكتب رقم 6+5+4 ملك مؤسسة الامارات العامه للبتروول - الوصل

### الملاحظات / Remarks

مصرح للمكتب بالتصميم والإشراف على مبان غير محدودة الطوابق وتقتصر مزاولته لنشاطي كهرباء وميكانيكا المباني على مشاريعه التي تعاقد على تصميمها معماريا وإنشائيا.

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# WME

