

A DANAR

R AT L







- Acoustic Design
- Sound Insulation
- Acoustic Tests
- Noise and Vibration Control



PO Box 2255 / Doha / Qatar tel: 974 4468 4482 email: admin@amaqatar.com

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What is Building Acoustics / About Us / Services Projects Clients Organization Chart Engineering Team CVs Software and Equipment Company Registration and License List of Other Projects and Clients

What is Building Acoustics?

Building Acoustics is an engineering discipline focused on achieving good acoustic environment within buildings. Its aims can be about achieving good **sound insulation** between rooms, enhancing the **quality of music** in a concert hall or recording studio, preventing environmental **noise pollution**, cutting down impact of **construction noise** or reducing **noise and vibration** to make offices, classrooms and homes more productive and pleasant environments.



About Us

We are Acoustic Consultants. Established and present in Qatar since 2008, we are serious about good acoustic design that actually works. In Al Mana & Associates it's all about peaceful, acoustically rich spaces. Focusing on Environmental, Architectural and Building Acoustics, alongside Noise and Vibration Control, we provide acoustic consultancy services throughout all the project stages, assuring cost-effective and reliable acoustic solutions.

With a proven record of engineering excellence on some of Qatar's landmark projects and a wide portfolio of residential and commercial objects, hotels, schools, theatres, studios, airports, industrial plants, mosques, etc. we are highly committed to deliver high-end consultancy customized to client's needs.

Services

Al Mana & Associates' expertise extends into all of the specialist field areas; from architectural acoustics of buildings, interior room acoustics, environmental noise surveys and assessments, building services noise control to various acoustic tests.

To raise the awareness on importance of acoustics in Qatar and encourage best engineering practice, we offer specialized seminar programmes to architects, civil engineers, mechanical engineers or anyone enthusiastic about acoustics.

PROJECTS

Know-How:

- Noise and vibration control
- Sound insulation
- Room acoustics
- Acoustic modelling
- Environmental acoustics
- Acoustic tests
- Industrial noise
- GSAS assessment
- Construction noise management
- Specialized seminars
- Acoustic surveys



NOISE CONTROL



BURJ QATAR

Al Mana & Associates provided support throughout the construction stage in order to ensure favourable acoustic environment for this iconic high rise tower. Extensive acoustic tests were performed on a daily basis allowing Project Team to identify any critical items and integrate cost-effective acoustic solutions found necessary. Principal focus of our work included facade sound insulation, airborne and impact sound insulation between the floors, chillers noise, elevator induced noise and building services noise and vibration control.

SHEMOUKH TWIN TOWERS

Mechanical rooms located in between occupied floors, alongside Cooling Towers on the roof level, presented a challenge from an acoustic point of view. Advice on the most suitable means of noise and vibration control was provided, including inertia bases, floating floor and wall upgrades which prevented flanking noise transmission. With verification acoustic tests conducted; operation of chillers, pumps, air handling units, etc. was virtually non-audible in the adjacent office spaces.





FALCON TOWER

There is no compromise on acoustic design when it comes to 5-star hotels. Our daily presence at the site ensured that no aspect of building acoustics was left to chance; from the level of comfort and privacy within the hotel alone to noise impact to the nearby buildings.

SOUND INSULATION IMPROVED

HILTON DOUBLE TREE

Privacy between the bedrooms is one of the key aspects of every hotel; significantly adding to the guest loyalty. With curtain wall and its interface with inter-tenancy partitions, sound insulation is regularly compromised in favour of appearance. Providing advice on acoustic treatment for facade mullions which are acoustically weak points, targeted sound insulation ratings were achieved enabling high privacy levels between the bedrooms, without any impact to the gorgeous facade design.







WESTIN HOTEL

Day to day site supervision and complete range of building acoustic services provided, emphasizes clients understanding of acoustic design and its importance in the leisure industry. Apart from immaculate sound insulation achieved and noise and vibration control measures implemented to almost every noise source on the project; box-in-a-box design and reverberation time control of dazzling Ballroom, alongside specialized acoustic enclosure for the Chillers yard classifies Westin hotel as one of the most acoustically successful projects in Doha.

VODAFONE OFFICES

Understanding the importance of good acoustic design in office spaces, Vodafone Qatar engaged Al Mana & Associates during the major refurbishment of their offices in Qatar Science and Technology Park. Having increased privacy between private offices, reduced excessive reverberation in open plan office and improved acoustic quality of meeting rooms which were practically unusable; once again unambiguous relation between good acoustic design and productivity was established.

AUDIOLOGY ROOMS

(AL WAKRA HOSPITAL & HMC)



ROOM ACOUSTICS

Rooms for speech and language therapy require special acoustic considerations that enable their full operational capability. From design, through construction to completion; our assistance enabled indispensable low interior noise levels, extreme levels of sound insulation and minimum reverberation time; to a satisfaction of all the involved parties.



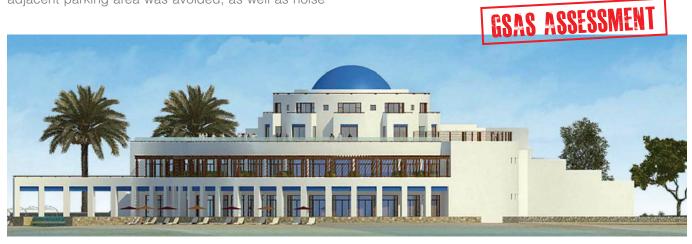
LUSAIL MARINA YACHT CLUB

Qatar's future city of Lusail is a home for some of the boldest projects of today. One of these is surely breath-taking Marina Yacht Club which is being built to the highest standards. Al Mana & Associates provided guidance on reducing the acoustic impact to the surroundings and improving interior acoustics quality; all in order to achieve top rating under the Global Sustainability Assessment System (GSAS).



KATARA FITNESS CENTER

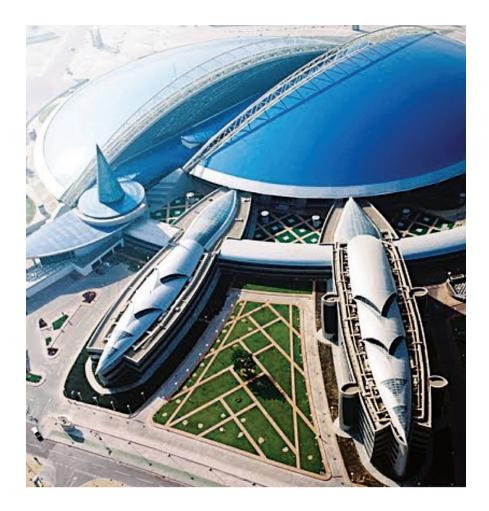
Latest addition to marvellous cultural village of Katara is a world class Fitness Center. Dedicated Project Team considered building acoustics as they're aware it's not all about the location and facilities provided. Favourably locating the building, noise ingress from adjacent parking area was avoided; as well as noise pollution to peaceful surroundings prevented by carefully hiding building services. Deservedly, this Katara's gem achieved top ratings for acoustic design under the Global Sustainability Assessment System (GSAS).

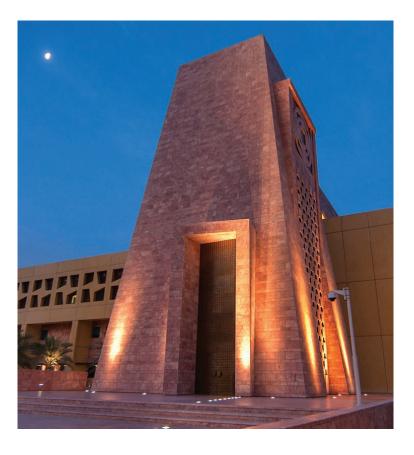


ASPIRE ACADEMY

With World Cup knocking at the door, Qatar is diligently expanding its network of sports facilities, with Aspire zone and top notch Aspire academy leading the way. Al Mana & Associates set the acoustic design requirements for future expansion of existing facilities.

Considering its relevance and level of standard provided; constringent acoustical criteria have been considered: low interior noise levels, superior sound insulation and reverberation time control for all the performance spaces are just some of the key aspects mandated.





TEXAS A&M UNIVERSITY

With a general recognition that teaching and learning are acoustically demanding activities, we undertake acoustic consultancy for educational facilities very seriously. With Texas A&M University undergoing major refurbishment, our team advised mechanical engineers, architects, civil engineers and interior designers how to achieve suitable acoustic conditions for both students and professors. Correct sizing and installation of air-conditioning units, suitable constructions for walls and ceilings, suitable seating arrangement and introduction of acoustically absorbing materials were just some of the key elements considered and implemented.

AI JAZEERA ARABIC CHANNEL

TV studios are acoustically highly sensitive places where even the slightest disturbance may compromise broadcasting process. With the construction of additional studio just next door, task of noise control becomes highly challenging.

We have successfully provided extensive construction noise management services, to ensure that broadcasting does not get interrupted, regardless of the ongoing construction activity.

Having developed extensive noise control policy and coordinating between the contractor and the studio team; any potential delays or interruptions in daily TV programme were avoided.



QATAR UNIVERSITY

As a part of the Project Team of the biggest student housing project in Qatar, we advised on suitable means of noise and vibration control. Correct selection of vibration isolators for numerous fans and pumps proved essential in reducing cost and installation time. Modifications of Fan Coil Unit layouts, alongside installation of acoustically insulated plenum boxes yielded significantly low interior noise levels; verified in the early construction stages to avoid any delays and hidden expenses.



BARWA AL SADD

Modifying the project from commercial tower to a hotel placed some highly challenging tasks in front of the Project Team; with building acoustics topping the chart. Apart from numerous acoustic tests carried in order to identify existing acoustic conditions, AI Mana & Associates provided advice and supported the contractor in efforts to reduce interior noise levels, improve sound insulation and control reverberation time with the minimal additional costs.





DOHA CONVENTION CENTER

Newest addition to exhibition spaces in Qatar features one of the best acoustic designs in segment of halls. We have conducted comprehensive STI tests (Speech Transmission Index) to determine coverage and speech transmission quality of Public Address system; which passed with flying colours.





MOVENPICK TOWER & SUITES DOHA

Identifying strengths and weaknesses of existing acoustic environment is paramount for any building. Especially for a hotel where acoustic design makes all the difference between an empty and occupied room, leading to guests satisfaction. Management of renown Movenpick group recognized that importance and warmly welcomed first acoustic survey undertaken in Qatar. Guestrooms, Spa area, Lobby, Restaurants, etc. were thoroughly examined by our experts, leaving no stones unturned. Although Hotel rated high in the terms of sound insulation and suitable interior noise levels, valuable recommendations to facility management were given that will enable further improvement of hotel's acoustic environment.

QATAR FOUNDATION RESEARCH & DEVELOPMENT COMPLEX

World class Research and Development Complex located in Doha's Education City is a home of Qatar Foundation research and development institute. To allow the research community to focus on their work and tackle scientific challenges from different angles; acoustic conditions of numerous offices and laboratory spaces had to be immaculate. Our Team of Acoustic Engineers conducted extensive sound insulation and reverberation time tests throughout the complex; identifying weak spots in the early construction stages. Working alongside Project Team any deviations from project requirements were rectified at minimal cost and Client's high-end requirements ultimately fulfilled.



MSHEIREB DOWNTOWN DOHA AMIRI GUARD BUILDING

Apart from providing accommodation for the Amiri guards; this soon-to-be iconic building will serve as the

training centre too. Combining best of traditional and modern architecture; it houses a marvelous Auditorium which can accommodate up to 150 people. To enable high levels of intelligibility; Al Mana & Associates' specialists created a high-end acoustic model of the area, using state-of-the-art software ODEON. By doing so and closely coordinating with the contracting team, fit-out details and selection of materials were optimized, with an exquisite acoustic environment for lecturing purposes achieved.



QATAR SCIENCE AND TECHNOLOGY PARK

Integral part of Qatar Science and Technology Park is its Meeza data center. Being an IT hub, it's packed with numerous high-tech equipment; inevitably being noisy and annoying the employees. Despite a lot of restraints, due to nature of the area, our advice on effective means of sound insulation was successfully incorporated in the latest refurbishment plans; reducing levels of noise within the work space and enabling employees to focus on their important work with a high level of productivity.



SOUQ WAQIF – SOUQ HOTEL

Range of classy boutique hotels being built within top tourist destination spot - Souq Waqif; will surely aid to Qatar's goal in being recognized as leading tourist destination in the region. With guest numbers increasing and their safety being of prime importance;

there's no room for errors in design and operation of

Fire Alarm and Public Address systems. With powerful computer simulation utilized, our expert Team of Acoustic Engineers, made sure transmitted emergency messages will be both audible and intelligible.



WORKERS' HOSPITAL AND INTEGRATED HEALTH CENTER

On a healthcare project comprising of a 120-bed hospital, an integrated health centre and a mosque, controlling noise of building services becomes quite a task. Having carried in-depth acoustic study including over 70 Air Handling Units and not less than few thousand VAVs; our inputs proved essential to the Project Team; considering that somewhat higher airflow velocities required special duct liner and acoustic lagging to be introduced; not overseeing rigid hygiene requirements being maintained at all times.



WORLD TRADE CENTER



Top management office spaces located on the highest levels of World Trade Center are cherry on top of this remarkable tower overseeing Doha's Corniche.

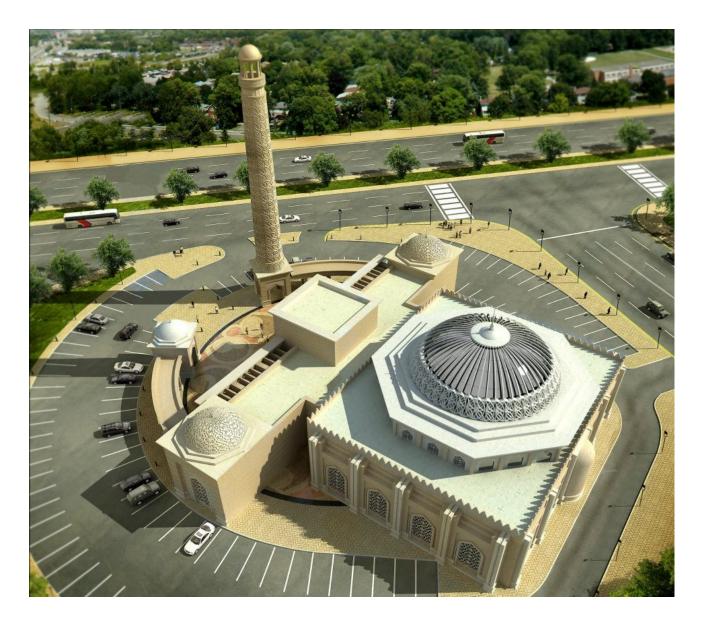
Such office spaces require particular attention when acoustic conditions are being discussed; as high levels of privacy and controlled reverberation time have to be incorporated in the interior design vision. To stay ahead of the game, Project Team engaged Al Mana & Associates' building acoustic specialists. Providing advice on suitable and cost-effective means of establishing favorable interior acoustic conditions; path for a successful execution of this five star office space was laid.

Z LOUNGE – KEMPINSKI RESIDENCES & SUITES DOHA



Z Lounge is the latest addition to Qatar's ever-growing clubbing scene; and surely a venue to admire. However, construction of Night Clubs and Lounges in hotels and residential towers presents one of the most difficult tasks an Acoustic Consultant can undertake. Reconciling subjective desires and objective technical limits of maximum noise levels that can be produced in such spaces is rather challenging. Our expertise and guidance on installation of specialized acoustic systems, such as floating floor or double lobbied doorway, enabled

Lounge operator to use this premium entertainment venue for musical events despite being located just above exclusive suites.



SAAD BIN MAJED MOSQUE

This inspiring single-domed mosque, located at the very heart of Doha's bustling West Bay, is certainly one of the pinnacles of our practice. With detailed 3D acoustic model created, we determined the optimum amount of acoustic treatment required. Made virtually invisible, blended behind decorative mashrabiya screens, balanced quantity of suitable acoustic panels transformed the mosque into an aural masterpiece; achieving the perfect amount of "acoustical liveness" for the space and no acoustic defects.

CLIENTS







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الشركة القطرية للاستثمارات العقارية همه Qatar Real Estate Investment Co. 200

















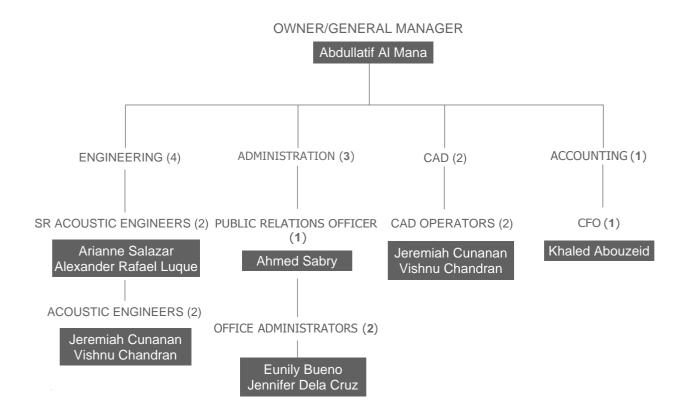






... and more

ORGANIZATION CHART



Engineering Team



Arianne Salazar

SENIOR ACOUSTIC ENGINEER

Manages Al Mana and Associates' (AMA) Acoustic Team. Coordination with the Client and Project Team. Reviews and assesses quality of the data and final Acoustic reports prior to submission to the Client. Supervises AMA Acoustic Team throughout the various phases of the project.



Alexander Rafael Luque

SENIOR ACOUSTIC ENGINEER

Manages Al Mana and Associates' (AMA) Acoustic Team. Coordination with the Client and Project Team. Reviews and assesses quality of the data and final Acoustic reports prior to submission to the Client. Supervises AMA Acoustic Team throughout the various phases of the project.



ACOUSTIC ENGINEER Conducts Acoustic tests, carry out calculations and assists team with preparation of Acoustic reports.



ACOUSTIC ENGINEER Conducts Acoustic tests, carry out calculations and assists team with preparation of Acoustic reports.

ENGINEERING TEAM CVs



Arianne Salazar

SENIOR ACOUSTIC ENGINEER ECE

QUALIFICATION

 Bachelor of Science in Electronics and Communications Engineering Bulacan State University, Philippines
 AutoCAD 2D 3D – Training Course TESDA Korea-Philippines
 IT Training Center, Philippines

EXPERIENCE

- Al Mana & Associates (AMA), Qatar
- Accenture, Philippines

BIOGRAPHY

Arianne has been part of Al Mana & Associates (AMA) as an Acoustic Engineer since 2012. Prior to establishment in Doha, she worked in Accenture Philippines as a Network Processing Associate on circuit designs and network-related orders for a major telecommunications company in the U.S. During her involvement with AMA, she has developed competency and gained extensive experience with acoustic modelling, using high-end software such as ODEON and LimA, for simulating acoustic performance of auditoriums, halls, commercial spaces, as well as HVAC equipment noise mapping. Her professional expertise extends into all branches of acoustics which includes building, architectural, environmental acoustics, HVAC noise and vibrations control.

MAJOR PROJECTS

COMMERCIAL

- Shemoukh Twin Towers, Qatar
- Burj Qatar, Qatar
- Traffic Control Center (ISF Camp), Qatar

HOTELS

- Barwa Al Sadd Tower, Qatar
- Westin Hotel, Qatar
- Falcon Tower, Qatar
- Salwa Resort Hotel, Qatar
- Mandarin Hotel, Qatar

STUDIOS

- Al Kass Studio, Qatar
- Al Jazeera Studio, Qatar

HOSPITALS

- Hamad Medical City, Qatar
- Central Laboratory Building at HMC, Qatar

RESIDENTIALS

- Sheikh Abdul Rahman Al-Thani Villa, Qatar
- Umm Salal Villa, Qatar
- Sidra Staff Housing Project, Qatar

EDUCATIONALS

- Qatar University, Qatar
- Texas A&M University, Qatar
- Qatar Academy Sidra
- Qatar University Sports and Events Complex

AUDITORIUMS AND THEATHRES

- Katara Amphitheatre, Qatar
- Qatar Academy Junior & Senior School, Qatar
- Qatar University Music Rooms, Qatar

OTHERS

- Katara Fitness Centre, Qatar
- Al Wakra Stadium



Alexander Rafael G. Luque

SENIOR ACOUSTIC ENGINEER SOUND ENGINEER. MSc MECHANICAL ENGINEERING.

QUALIFICATION

- Bachelor. Sound Engineer. 2008. Universidad de San Buenaventura.
- Magister. Mechanical Engineering.2014. Universidad Nacional De Colombia.
- Diploma. Basic Acoustic 2006.
 Universidad de San Buenaventura.

BIOGRAPHY

More than 10 years of experience on acoustics engineering for building and industrial projects.

Specific experience as a consultant: developing designs, measurements, modelling and analysis.

His professional expertise extends into all branches of acoustics which includes building, architectural, environmental acoustics, HVAC noise and vibration control.

EXPERIENCE

Company: Carvel Ingenieros S.A. Customer development and Engineering HVAC Sectors: Industrial and Health Position: Commercial & Project Management.

Company: ISOVER - SAINT GOBAIN. Responsible for insulation and waterproofing and Development of the construction market. Position: Building Director.

Company: FIBERGLASS - SAINT GOBAIN. B2B Commercial and technical responsibility, Business plans, commercial offers and sales. Position: Sales Engineer on Acoustic Products.

Company: ACUSTEC S.A. Designing and budgeting for acoustics projects. Position: Design Engineer.

- Teatro Santa Marta.
- Cinemateca Distrital.
- Teatro Colon de Bogota.
- Arena Coliseo de Pueblo Cali.
- Matecaña OPAM Pereira Airport.
- El Dorado Bogota Airport.
- Clinic Health 127.
- Paseo del Rio Mall.
- Panama Central Bank.
- Atlántico University Auditorium.
- Hotels: W, Irotama, Hampton, Ibis.

MAJOR PROJECTS (QATAR)

- J.W Marriot Hotel
- QAF Printing Press
- Mozoon Towers
- Hala Project

MEMBERSHIP

- Acoustical Society of America.
- •Asociacion Colombiana para la Calidad Acustica with SAINT GOBAIN.
- •Asociacion Colombiana de Acustica.



Jeremiah Cunanan

ACOUSTIC ENGINEER ARCHITECT

QUALIFICATION

• Bachelor of Science (Architecture),

Don Honorio Ventura Technological State University (Philippines)

EXPERIENCE

- Al Mana & Associates (AMA), Qatar
- Hilmarc's Construction Corporation (Philippines)

BIOGRAPHY

Jeremiah has been part of Al Mana & Associates (AMA) as a Junior Acoustic Engineer this 2018. He worked in Hilmarc's Construction Corporation (HCC) as a Project Architect in a Okada Manila Project in Philippines. As a member of the AMA consultancy, he has been involved in various projects pertaining to building acoustics.

MAJOR PROJECTS

COMMERCIAL

- Qatar Rail Al Mansoura, Doha Qatar
- Wajba Palace, Doha Qatar
- Mannai Headquarters at Industrial Area, Qatar

HOTELS

- Wyndham Hotel, Doha Qatar
- Dusit Hotel & Suites, Doha -Qatar

EDUCATIONAL

• Qatar University

RESIDENTIAL

- Mandarin Oriental Hotel, Doha Qatar
- Assoufid Hotel, Morocco



Vishnu Chandran

ACOUSTIC ENGINEER MECHANICAL ENGINEER

QUALIFICATION

• Bachelor of Engineering (Mechanical),

Visvesvaraya technological university (India)

EXPERIENCE

- Acoustic Engineer at Al Mana & Associates (AMA), Qatar
- Acoustic Engineer at HMPL Consulting Pvt Ltd, India
- Acoustic Engineer at Acoustical surfaces Pvt Ltd, India

BIOGRAPHY

Vishnu has been part of Al Mana & Associates (AMA) as a Junior Acoustic Engineer this 2019. He worked in HMPL consulting Pvt Ltd as an Acoustic engineer at Bangalore India and, he worked as an Acoustic engineer in acoustical surfaces Pvt Ltd at India. As a member of the AMA consultancy, he has been involved in various projects pertaining to building acoustics.

MAJOR PROJECTS

COMMERCIAL

- Qatar University station, Doha Qatar
- Education City Station, Doha Qatar

HOTELS

 Mandarin Oriental Hotel and Serviced Apartments -Msheireb

EDUCATIONAL

Qatar University

OFFICES

• Research and Development complex -Doha, Qatar

SOFTWARE AND EQUIPMENT

ODEON State-of-the-Art Room Acoustic Software

LimA Environmental Noise Propagation Software

NORSONIC Sound Level Meter

NTi Sound Level Meter

NORSONIC Tapping Machine

NTi Omnidirectional Sound Source



THE ART OF ACOUSTIC ROOM MODELLING

Brüel & Kjær has entered into an agreement to become worldwide sole distributor of ODEON, a reliable, easy-to-use prediction software tool for indoor acoustics developed at DTU, the Technical University of Denmark. The ODEON project was founded by the Department of Acoustic Technology and six Danish consulting companies back in 1984 with the purpose of providing reliable yet easy to use room acoustics prediction software.

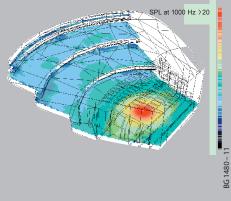
ODEON covering room acoustics, noise control, and auditorium acoustics is available in three editions all running Windows[®] 95, 98, Me, NT[®] and 2000:

Industrial - for environmental acoustics where SPL, SPL(A), T30 , STI and DL2 are the important results.

Auditorium - for calculation of a large set of room acoustical parameters according ISO 3382. Includes a reflectogram, a 3D display of reflection paths, reverberation curve displays and versatile auralisation features.

Combined - includes all the features found in the Industrial and Auditorium editions.

For further information contact your local sales representative.



HEADQUARTERS: DK-2850 Nærum · Denmark · Telephone: +4545800500 · Fax: +4545801405 · http://www.bksv.com · e-mail: info@bksv.com Australia (02)9450-2066 · Austria 0043-1-8657400 · Brazil (011)5182-8166 · Canada (514)695-8225 · China (66)1068029906 Czech Republic 02-67021100 · Finland 09-755 950 · France (01)69907100 · Germany 06103/733 5-0 · Hong Kong 25487486 · Hungary (1) Ireland (01)8037600 · Italy 025768061 · Japan 03-3779-8671 · Republic of Korea (02)2473-0605 · Netherlands (31)8185 59290 · Norwa Poland (0-22)8589392 · Portugal (1)4711453 · Singapore (65) 377-4512 · Slovak Republic 4212 5443 0701 · Spain (01)6590820 · Sweden (08)4498600 · Switzerland 01/8807035 · Taiwan (02)7139303 · United Kingdom (0) 1438739000 · USA 800332 2040 Local representatives and service organisations worldwide

y 667771155 Brüel & Kjær ≞∰≮

SOFTWARE SUITE

POWERFUL AND INTUITIVE ENVIRONMENTAL NOISE CALCULATION AND MAPPING

Predictor-LimA[™]







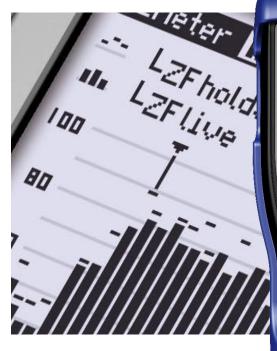




Sound Level Meter
 Real Time Analyzer
 Audio Analyzer
 FFT Spectrum Analyzer

STIPA Analyzer

HANDHELD AUDIO AND ACOUSTIC ANALYZER





INTI



Made in Switzerland



Tapping Machine Nor277

Application

• Impact sound transmission testing according to ISO140, part VI, VII and VIII, ASTM E-492 and ASTM E-1007.





Features

- Remote operation from hand switch or PC
- Mains or battery operation
- Low weight
- Compact
- Rugged construction
- Built in self check of hammer fall speed, and tapping sequence.
- Retractable feet





Dodecahedron Speaker Set

Omnidirectional Sound Source



DS3 Dodecahedron Loudspeaker with speaker stand



PA3 Power Amplifier



DS3 Dodecahedron Speaker with Carrying Bag and Speakon Cable

The Dodecahedron Speaker Set offers a lightweight, yet powerful signal source for room & building acoustic measurements. The optimized frequency response ensures precise measurements in accordance with the ISO 16283 and the ISO 3382 standards. The set includes the robust omnidirectional DS3 Dodecahedron Speaker and the remote-controlled PA3 Power Amplifier.

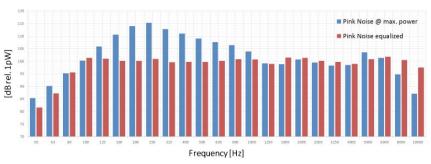
The dodecahedral design arranges 12 high-quality dynamic drivers for a uniform omnidirectional radiation of the acoustic test signal. The DS3 is powered by the portable PA3 power amplifier, which includes a Pink noise generator with an equalized output signal. The equalization ensures that the ISO 16283-1 requirement of \leq 8 dB difference between contiguous 1/3rd octave bands in the emitted sound is met. The wireless remote control allows the test signal to be switched ON/OFF from outside of the measurement room.

Key Features

- Equalized acoustic frequency spectrum from 100 Hz to 8 kHz
- Maximum sound power typ. 121 dB
- Compact, robust and lightweight
- Wireless remote control

Applications

- Room & building acoustics (e.g. reverberation time RT60)
- Airborne sound insulation analysis
- Absorption coefficient testing of building material



DS3 sound power spectrum

COMPANY REGISTRATIONS AND LICENSES



إدارة التسجيل والتراخيص التجارية

مستخرج ببعض بيانات السجل التجارب

Registration and Commercial Licenses Department

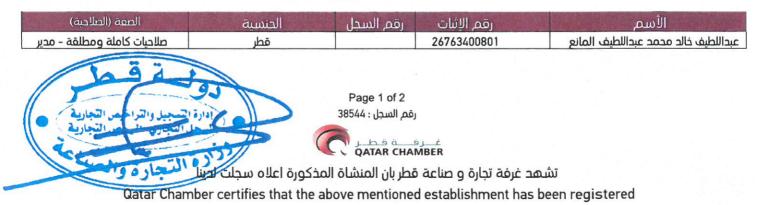
تاريخ الطباعة: 2020/04/02

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|-----------------|----------------------|-------------------------|-----|-------------------|--|
| | السمة التجارية: | شركة المانع اند اسوسيتس | | الأسم التجارى: | |
| 16/03/2021 | تاريخ انتهاء السجل: | 18/03/2008 | :J | تاريخ انشاء السجر | |
| 200000 | راس المال: | شركة ذات مسئولية محدودة | ; | الشكل القانونى: | |
| قطر | جنسية المنشأة: | نشط | | حالة السجل: | |
| | | 0 | | عدد الفروع: | |
| | | معلومات الاتصال | | | |
| 5513233 | أرقام الاتصال: | 22 | 55 | صندوق البريد: | |

المالك

| الجنسية | رقم السجل | رقم الإثبات | الأسم |
|---------|-----------|-------------|--------------------------------------|
| قطر | | 26763400801 | عبداللطيف خالد محمد عبداللطيف المانع |

المدراء (المخولون بالتوقيع)





Ministry of Commerce and Industry

إدارة التسجيل والتراخيص التجارية

Registration and Commercial Licenses Department

مستخرج ببعض بيانات السجل التجارب

الأنشطة التجارية

| إسم النشاط | الرقم | إسم النشاط | الرقم |
|------------|-------|--|---------|
| | | مقاولات كهربائيه والكترونيه (الصوتيات والمرئيات ومانماثلها) | 2002605 |



LIST OF PROJECTS AND CLIENTS

| PROJECT | CLIENT |
|--|---|
| BURJ QATAR | China State Construction & Engineering Corporation (CSCEC) |
| SHEMOUKH TWIN TOWERS | SEG Qatar |
| MONDRIAN DOHA (FALCON TOWER) | SEG Qatar |
| HILTON DOUBLE TREE | Al Khayyat Contracting and Trading, KCT |
| QATAR AIRWAYS TRAINING CENTER | Interspace |
| FIFA 2022 WORLD CUP STADIUM AL WAKRAH | MIDMAC-PORR-SIX CONSTRUCT |
| FIFA 2022 WORLD CUP STADIUM AL BAYT | Qatar Design Consortium WLL, QDC |
| FIFA 2022 WORLD CUP STADIUM FOURTH PRECINCT | MEINHARDT |
| AL WAKRAH STADIUM ENERGY CENTER | Qatar Design Consortium WLL, QDC |
| AL BAYT STADIUM ENERGY CENTER | Qatar Design Consortium WLL, QDC |
| OUTDOOR COOLING OF AL GHARAFA SPORTS CLUB | Qatar Design Consortium WLL, QDC |
| KHALIFA ENERGY CENTRE | Qatar Design Consortium WLL, QDC |
| CURIO HOTEL – MALL OF QATAR | UrbaCon Trading & Contracting, UCC |
| INTERNAL SECURITY FORCES CAMP | Arab Engineering Bureau |
| DEVELOPMENT OF ISF CAMP TCC & SB3 BUILDING | Al Khayyat Contracting and Trading, KCT |
| TCC BUILDING - AIRBRONE SOUND INSULATION TEST GLASS PARTITION | Profession Aluminium Company |
| DEVELOPMENT OF ISF CAMP CPC7A & CPC7B BUILDING | QD-SBG Construction |
| LUSAIL MARINA YACHT CLUB | CEINSA-JTC |
| LUSAIL MARINA MIX -11 DOHA, QATAR HOTEL AND SERVICES APARTMENTS | EHAF Consulting Engineers |
| MINISTRY OF INTERIORS RADIO | WCT Berhad (Qatar Branch) |
| AL RAYYAN RADIO | Media Group L.L.C |
| 360 MORNING STUDIO | Gulf Contracting Co. WLL |
| WESTIN HOTEL AND SPA | RAMCO Trading and Contracting |
| Z LOUNGE – KEMPINSKI HOTEL | Al Mana Maples WLL |
| ZENGO RESTAURANT – KEMPINSKI HOTEL | IMAR |

| PROJECT | CLIENT |
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| KATARA FITNESS CENTER | Qatar Design Consortium WLL, QDC |
| KATARA MARINE RESTAURANT | Al Mana Maples |
| DOHA CONVENTION AND EXHIBITON CENTER | Debbas |
| DOHA LIVE | Al Baker Architects |
| HOLIDAY INN | MAN Enterprises |
| MOVENPICK HOTEL AND SUITES | Qatar Green Building Council, QGBC |
| AL MESSILA RESORT AND VIP SPA | Generic Engineering Technologies W.L.L., GET |
| WALDORF ASTORIA | Harinsa |
| AL GHANIM WEST BAY MOSQUE | Mechel Engineering WLL |
| TEXAS A&M UNIVERSITY | Qatar Design Consortium WLL |
| AMIRI GUARD MUSHEIREB | CEG International |
| DIWAN AMIRI ADDITIONAL ANNEX | UNii Engineering |
| AMIRI GUARD BUILDING (AUDITORIUM) | UrbaCon Trading & Contracting |
| WORLD TRADE CENTER | Al Musairie |
| AL MANA EDITION HOTEL | Louis Berger |
| WATER SECURITY MEGA RESERVOIR | Consolidated Contractors Company |
| ASPIRE SPORTS HALL AND ACADEMY | Aspire Logistics |
| ASPIRE PARK EDUTAINMENT COMPLEX | EHAF Consulting Engineers |
| QATAR UNIVERSITY SPORTS AND EVENTS COMPLEX | LACASA |
| 4 STAR HOTEL AT RAS BUFONTAS | All Design |
| MIXED USE DEVELOPMENT AT AIRPORT ROAD | SAMKO |
| SALWA RESORT (VILLA AND STAFF VILLAGE DOORS) | Al Sharajah Carpentry & Decoration Al Ali Engineering Co. W.L.L. |
| AUSTRALIAN EMBASSY AT TORNADO TOWER | TEC Interior Design W.L.L. |
| AMBASSADOR'S RESIDENCE | EMBASSY OF SWITZERLAND |
| WORKER'S HOSPITAL AND INTEGRATED HEALTH CENTER (MESAIEED) | Mercury MENA W.L.L. |
| WORKERS HOSPITAL AND INTEGRATED HEALTH CENTER AT INDUSTRIAL AREAX | MIDMAC Contracting & Trading CO. W.L.L. |

| PROJECT | CLIENT |
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| WORKER'S HOSPITAL & INTEGRATED HEALTH CARE CENTER (RAS LAFFAN) | ETA Star Engineering & Contracting W.L.L. |
| COMMERCIAL PILOT DEVELOPMENTS FOR RAS BUFONTAS (QEZ1) ECONOMIC ZONE | Makower Architects |
| LUSAIL TOWER 01 (2B+GF+6P+18F) | UrbaCon Trading & Contracting, UCC |
| NPP/007 - PORT INFRASTRUCTURE & BUILDINGS - ACOUSTICS | SINOHYDRO - UCE JV |
| RAYYAN PLAZA HOTEL & OFFICES COMPLEX (TWIN TOWERS) | Arabtec Construction Co. WLL |
| THE GROUP SECURITIES (OFFICE FIT - OUT) | The Group Securities |
| BEIN SPORTS - VOICE OVER BOOTHS | belN Media Group |
| QATAR PETROLEUM - MDO BOARD ROOM ACOUSTICS MEASUREMENT | AVT Audio Visual Technology & Security Systyems |
| R.O. FACILITY AT QATAR FOUNDATION EDUCATION CITY (EDC) | PROTEC Technical Services |
| ITHAAFUSHI MALDIVES RESORT | Highness Engineering Consultants |
| AL ABDUL WAHAB TOWER- BALLROOM | SAK Trading & Contracting |
| ABDUL AL WAHHAB GHOLAM PROJECT- GUESTROOM CONNECTING DOORS | SAK Trading & Contracting |
| RESEARCH AND DEVELOPMENT COMPLEX | REDCO Construction AI Mana |
| J52 INTERCONTINENTAL HOTEL - ROOFTOP EQUIPMENT NOISE ASSESSMENT | Conspel Qatar WLL |
| DOHA OASIS | Aurecon Engineering Consultants WLL |
| DOHA OASIS MIXED USE DEVELOPMENT ACOUSTICS TIMBER DOORS (VALUE ENGINEERING) | Khazanah Trading and Decoration |
| SHAFAFIYA | Rumaillah Services WLL |
| IBIS & ADAGIO HOTEL COMPLEX | Al Bandary Engineering |
| PANORAMA TOWER AND TOWNHOUSE | Radiant Engineering Enterprises |
| ECAQ WORSHIP CENTER | Qatar Design Consortium WLL, QDC |
| QGYPS DRYWALL PARTITIONS AIRBORNE SOUND INSULATION | QGYPS Qatar Gypsum Board Factory |
| PALOMA RESTAURANT (INTERCONTINENTAL HOTEL) | MAN Enterprise Qatar |
| AL HASSAN PROJECT - AIRBORNE SOUND INSULATION TEST | Domopan Qatar W.L.L |
| INTEGRATED TRAINING FACILITY (DOHA AIRPORT) | Interspace |
| AL-BAKER EXECUTIVE TOWERS AIRBORNE SOUND INSULATION TEST | REDCO Construction AI Mana |
| | |

| PROJECT | CLIENT |
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| DOHA METRO (GREEN LINE STATIONS) | IMAR Trading and Contracting |
| AL JAZEERA AJA BUILDING, STUDIO 2 (ACOUSTIC TESTS OF DOORS) | Al Jazeera Media Network |
| QSTP AL MEEZA CENTRE | Debbas |
| DEV'T OF MAJLIS MOTEL & GUEST HOUSE @ LAAWEENA | UrbaCon Trading & Contracting, UCC |
| RAS ASHIRIJI VILLA | Al Ali Projects Company |
| QATAR UNIVERSITY PROJECT | SEG Qatar |
| KATARA AMPHITHEATER (RETRACTABLE ROOF) ACOUSTICS | Qatar Design Consortium WLL |
| AL JAZEERA ARABIC CHANNEL EXTENSION BUILDING - ACOUSTICS (NOISE MANAGEMENT) | AMAR Construction W.L.L. |
| GRAND HERITAGE HOTEL - ACOUSTICS | SEG |
| QATAR ACADEMY JUNIOR SCHOOL (AUDITORIUM) – ACOUSTICS | PAT Engineering Enterprises Co. WLL |
| RADIO STATION PROJECT (SOUQ WAQIF) - ACOUSTICS | Media Group Maintenance & Services |
| AL SHAQAB EQUESTRIAN CENTRE ACOUSTIC TESTING (REVISED) | Al Habtoor Leighton Group |
| PORTO ARABIA TOWER 13A & B - ACOUSTCIS | Powerline Engineering (PLQ) - Qatar- WLL |
| SOUQ WAQIF HOTEL (PA SYSTEM) - ACOUSTICS | SIS (Specialized & Interactive Systems WLL |
| VODAFONE OFFICE ACOUSTICS (PO # 1501085535) | Vodafone Qatar QSC |
| MIC BUSINESS AND RECREATIONAL COMPLEX (ACOUSTIC STUDY) | ALAQARIA |
| AL JASRA BUILDING (MOCK-UP ROOM) ACOUSTIC TEST | Bluu Gulf |
| QATAR MUSIC ROOM ACADEMY - EDUCATION CITY AND ALKHOR - ACOUSTICS | Imar Contracting & Trading |
| WADI LUSAIL DCP - ACOUSTICS | DRAKE & SCULL |
| AUDIOLOGY ROOM (AL WAKRA HOSPITAL) | Koru Trading & Contracting |
| NOZUL LUSAIL MARINA HOTEL - ACOUSTIC SURVEY | Nozul Real Estate (ENSRV Group W.L.L) |
| FIRST CLASS LOUNGE - ACOUSTICS FIELD TEST | Permasteelisa Gartner Qatar LLC |
| HBK OFFICE (SALWA ROAD) | Belle Harvey Interiors |
| QSTP BUILDING (EDUCATION CITY) UPS AND BATTERY ROOM | Qatar Design Consortium WLL |
| GYMITO | Sabban Interiors |
| BARWA AL SADD TOWER | Group for Wooden Industries |

| PROJECT | CLIENT |
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| GRAND HERITAGE HOTEL | SEG |
| AL JAZEERA ARABIC & MUBASHER MODIFICATION PROJECT | Al Doha Maintenance & Services |
| NORTH GATE MALL – CHILLED WATER PUMPS | Voltas Qatar WLL |
| AL MASSILLA VILLA (MAJILIS + VILLA + GUEST HOUSE) | Al Khayyat Contracting and Trading, KCT |
| QATAR STOCK EXCHANGE | The Group |
| PALM TOWER | Al Seal |

PREVIOUS APPROVALS

Project Name : Doha Oasis Mixed Use Development Employer : Halul Real Estate Investment Company TRANS No.: DOS-RED-PD-00GE-0007 Rev.: 1 Dated: 04 October 2016 Page: Page 1 of 2



(TRANS) Document Transmittal Part 1 – Submit / Receive / Distribute

 Consultant : AECOM Middle East Limited
 TRANS No:
 DOS-RED-PD

 Contractor : REDCO Construction - Almana
 Rev:
 1

| TRANS No: | DOS-RED-PD-00GE-0007 |
|-----------|----------------------|
| Rev: | 1 |
| Date: | 04 October 2016 |

| Project Name / No. | Employer | Supervision | | Contractor | |
|-------------------------------------|-------------------------------|--------------------|---------|----------------------------|--|
| Doha Oasis Mixed Use Development | t Halul REIC AECOM Middle Ltd | | | REDCO Construction Al-Mana | |
| Type of Discipline: | Mechanical | Electrical 🦳 Infra | ✓ Other | hers | |
| Type of Submittal ☐ 0 & M Manual | Test Results / | Certificates | | rganisational Chart | |
| C Design Calculation | ☐ Reports | | ∏ Pe | ermits / Bonds / Warranty | |
| 📁 Data Sheet | Safety Issues | | M M | ethod Statement | |
| 🦵 Quality Plan | 🔲 Drawing / Sket | ch | | oncrete Pouring Record | |
| Forms / Checklists | 🦳 Programme & | Schedule | | ther(s) specify | |
| Pre Qualification | Progress Billin | g | | | |
| Soft Copy Attached: 🔲 No 🛛 | Yes (specify) | 1CD | | | |

proc.

We are sending herewith the drawings | documents | samples listed below for your review.

| Item No. | Drawing Spec BOQ Reference | Description | Copies | Action Code |
|-------------|--|---|--------|----------------|
| 1 | DOS-RED-PD- 00GE-0007-01 | PREQUALIFICATION OF AL MANA & ASSOCIATES COMPANY FOR ACOUSTIC CONSULTANTS | 02 | B |

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the drawings, specifications and authority requirements. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The Contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades and performing his work in a safe and satisfactory manner.









Based on template: DOS-Q002_V_1_2



Part 2 – Comments

| Review Comm | nents: | | | | | | | |
|---------------------|---|---------------------------------------|--------------------------------------|--|--|--|--|--|
| - A | EE COMMENTS ON THE The approval is en completely. | | OCS properly and Je 09/10/2016 | | | | | |
| AECOM Revie | AECOM Review Assurance: | | | | | | | |
| Role | Sector Engineer | Lead Engineer | Quality Assurance | | | | | |
| Name & Signature | NER ANICHETE | Adnan Idriss | (QA/QC Representative) | | | | | |
| Date | 09 007 2016 | 09/10/16 | | | | | | |
| OPTIONAL | Additional Comments and/or Observations | : (refer to the attached OCS, if any) | TYES TNO | | | | | |

Part 3 – Approval

Multiple Doc. Status as Attached

C A. Approved

XB. Approved with Comments 🛛 C. Revise and Resubmit 🗖 D. Rejected 🗂 E. For Information

| Stamp: AECOM (Submitted) | Stamp: REDCO (Received) |
|--|------------------------------|
| AAJ AAJ Signature: AAJ PAUL BONNER A=COM Middle East Middle Eas | Name: Role: Signature: |
| AECOM REDCO AL MANA CONSTRUCTION AL MANA Cols Light de | |

Based on template: DOS-Q002_V_1_2

| | 5 | Page: 1 of 2 | | | | | |
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| | C) Ot | oservation (| (OC) Observation and Comment Sheet | | | | |
| | Consultant Contractor | : AECOM Middle East Ltd. : Redco Construction - Almana | -td. Almana | | TRANS Ref. No : DOS-RED-PD-00GE-0007 Rev. No : 1 | DOS-RED-PD-0 | 0GE-0007 |
| anger a | Title & Rev | : PREQUALIFICATION (| : PREQUALIFICATION OF AL MANA & ASSOCIATES COMPANY FOR ACOUSTIC CONSULTANTS | COUSTIC CONSULTAN | | | |
| | ed Docume | Reviewed Document / Drawing No.: | DOS-RED-PD-00GE-0007 Rev. 01 | Submittal No. : | Submittal No. : DOS-RED-PD-00GE-0007 | Issued Date : | 9-Oct-2016 |
| Street at Story M. March | Assessment Code: | ß | A = Approved B = Approved with Comments | C = Revise & Resubmit D = Not Approved / Rejected | cted | E = For Information | tion |
| 1247.0 | | | AECOM | | REDCO | | AECOM |
| STORE TO THE REAL PROPERTY OF | Reviewer | Identification of comment's source: [doc/part/page/para] | Observations / Comments | Document Ref. No. | Comments (if any) | Open - Closed | Sign-Off [Open Closed] |
| | AI/JHV NA | DOS-RED-PD-00GE- 0007 | Submit Prequalification ' Compliance Statement in accordance with Contract Requirements Rev-01- Acceptable | DOS-RED-PD-00GE- 0007 Rev.1 | Not Applicable since compliance statement is valid for material submitall | CLOSED | CLOSED |
| | AI/JHV | DOS-RED-PD-00GE- 0007 | Complete the list of calibrated equipment to be used at site instrumentations. The said equipt. shall be compliant to Class 1 & 2 as per BS EN 61672: 2003. Attached calibration certificates. Rev-01- Acceptable | DOS-RED-PD-00GE- 0007 Rev.1 | Please refer to attachment #1 | CLOSED | CLOSED |
| | Al/JHV NA | Acoustic Ref. Docs No. 242256-12/R20 & \R11b | Include also names of technicians who would be assigned for delegating the site acoustical installations, testings, inspections and mitigation works. Rev-01-Addressed | DOS-RED-PD-00GE- 0007 Rev.1 | Please refer to attachment #2 | CLOSED | CLOSED |
| | AZCOM | An and a second se | MICH AECOM | | | Based on | Based on template: DOS-Q041_V_1 |

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| | | 0GE-0007 | | 9-Oct-2016 | ation | AECOM | Sign-Off [Open Closed] | CLOSED | OPEN | Based on template: DOS-Q041_V_1 |
| Deha Oasis Progra | | DOS-RED-PD-0 | - | Issued Date : | E = For Information | | Open - Closed | CLOSED | CLOSED | Based or |
| | | TRANS Ref. No : DOS-RED-PD-00GE-0007 | TS | Submittal No. : DOS-RED-PD-00GE-0007 | toted | REDCO | Comments (if any) | Please refer to attachment #3 | Please refer to attachment #4 | |
| | | | ACOUSTIC CONSULTAN | Submittal No. : | C = Revise & Resubmit D = Not Approved / Rejected | | Document Ref. No. | DOS-RED-PD-00GE- 0007 Rev.1 | DOS-RED-PD-00GE- 0007 Rev. 1 | A=COM Datar Dona Oasis MinadiaEast Hinnis |
| | (OC) Observation and Comment Sheet | td. Almana | - REQUALIFICATION OF AL MANA & ASSOCIATES COMPANY FOR ACOUSTIC CONSULTANTS | DOS-RED-PD-00GE-0007 Rev. 01 | A = Approved B = Approved with Comments | AECOM | Observations / Comments | Submit Details of Test Proposals and Method Statements, No of Tests, locations, etc. <mark>Rev-01-Addressed</mark> | Submit company's Programme Quality Plan and ISO 9000-01 Certifications; to company's Quality Management System. Not Addressed- The attachment are not ISO Certification, for which is been requested from the previous comment, prior for verification if an organization performs internal audits to check how its quality management system is working | |
| Project Name: Doha Oasis Mixed Use Development Employer: Halul Real Estate Investment Company Page: 2 of 2 | servation | : AECOM Middle East Ltd. . Redco Construction - Almana | PREQUALIFICATION (| Reviewed Document / Drawing No.: | Ω | | Identification of comment's source: [doc/part/page/para] | Acoustic Ref. Docs No. 242256-12\R20 & \R11b | Quality Assurance & Quality Control QCS 2014. | NINA |
| Doha Oasis I JI Real Estate | C) Ob | | ' | ved Docume | Assessment Code: | | Reviewer | AI/JHV NA | AI/JHV NA | |
| Project Name: Employer: Halt Page: 2 of 2 | Ŏ | Consultant | Title & Rev | Review | Assi | | S/N | 4 | Ω. | |
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| EHAF A CONSULTING ENGINEERS | | لسیتس سطویر العقاری محمد | | UrbaCon Trading & Contracting |
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| PROJECT: LUSAIL O | FFICE TOWER CO | M39 | DATE:21-MA | R-2016 |
| Submittal Ref: UCC-LOT1-DS- | ACOUSTIC-318 Rev. | No.01 Subject: Pr Acoustic C | e-Qualification of onsultants | Al mana and Associates – |
| TO: EHAF Consulting Engin | neers | FROM: UC | C – (AL MANA) | |
| SUBMITTAL REF: UCC-LO | T1-DS-AR-124 | REV. NO.00 | | |
| Program | Inspection & Test | Test Reports | Method Statement | Others |
| | val 🛛 Review & Cor | mments | As Requested | Information Only |
| SENT VIA: 🛛 Attache | ed 🗌 Separate Co | ver SUBMISSION: | First | Re-submission |
| | tructural 🛛 Architectural | Electrical | Mechanical | Others - Acoustic Works |
| SPECIFICATION & BOQ RE | | LOCATION / USI | | and a subgroup of the second |
| Acoustic Works – QCS 2010 S | Section 11 | architectural acoustics | or Lusail Office Tower 1 of building, interior roon nts, building services no | Project – Whole Building Area (i.e. n acoustics, environmental noise ise control, etc |
| Contractor's review note p | rior to submission: | | States in the | and the second |
| Remarks: We certify that the ab | oove submitted documents except as otherwise state | s have been reviewed in de d. | etail and are correct a | and in strict conformity with the |
| 1 x d | / | 01- | | |
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| Prepared By | | 2013116 Approved | | Project Manager (Signature) |
| Supervision Consultant's R Status*: Comments & Remarks on above | Review Comments: | *A | pproval | |
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Ref: No. NPP/0064/LT/CDC/2016/0273 Date: 7 March 2016

Construction Development Company LLC P.O. Box: 8388 Doha, State of Qatar

Reference: NPP0064-CDC-PQ-00185 Rev. 0, dated 17 January 2016

Attention: Mr. Salvador Villaplana, Project Director

Subject: New Port Project (NPP) NPP/0064-Port Buildings and Infrastructure Package 2 Request for Approval of Al-Mana & Associates as Subcontractor – Acoustic Commissioning Specialist

Dear Mr. Villaplana,

We write with reference to the above prequalification document submittal from Construction Development Company (CDC) requesting the approval of Al-Mana & Associates as CDC's proposed subcontractor; acoustic commissioning specialist.

Pursuant to Sub-Clause 4.4 of the Particular Conditions of Contract, the Employer and the Engineer approve the proposed acoustic commissioning specialist - subcontractor.

The Contractor is required to close out any outstanding comments raised on the attached Contractor's Submittal Review Comments (CSRC) forms and Material Approval Submittal (MAS) forms are to be processed as normal for the specific materials to be used in the permanent works.

Any approval, acceptance or no objection to this manufacturer / supplier / service provider does not, under any circumstances, relieve the Contractor from its obligations to provide materials, equipment and/or services that are in strict compliance with the Contract Specifications. In the event that any material, equipment and/or services provided by this supplier does not comply in whole or in part with the Contract Specifications, then the Employer shall be held harmless and the Contractor shall propose an alternative supplier of the material/equipment and/or service at no additional cost and with no delay to the work.

Yours faithfully, Capt. Abdulla Al-Khanji

General Supervisor - New Port Project

cc: NPP, & PMC Encl: 1. CSRC (Ref: NPP0064-CDC-PQ-00182_0_CSRC) 2. Commercial Registration No. 38544, 17 March 2017

And El-Qutami Maisat

Project Executive Director

New Port Project P.O Box: 28333 Doha - QATAR

Ph : +974 4406 4484 Fax : +974 4406 4422

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Comments:

The Company CR approval (From ISF) to be obtained prior to their engagement.

Note: Scope of Work reviewed for is Construction noise monitoring .Determining noise and vibration impact from ongoing construction activity towards NCC building.

Phil Calbert

Project Manager

26 June 2014

Date

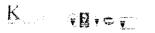




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| Address : | Phil Calbert | (Project Manager | .) | | CC: | QP | M, ISF (D | uhail), ISF (A | I Ray | yan) |
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SCHEDULE A - SCOPE OF SERVICES/ DELIVERABLES

- Site visit and thorough review of the M/s Acoustair Acoustic Report and relevant technical drawings, in order to familiarize with the site particularities and relevant project requirements.
- Conduct initial acoustic tests in order to pinpoint areas in which the compliance with the project requirements will not be achieved. Acoustic Tests to include: Airborne and impact sound insulation, noise levels related to operation of building services (FCUs, Chillers, etc.)
- Advice on all the matters related to building acoustics and any rectification required (reduction of noise levels, improvement of sound insulation, etc.), all in order to meet the project requirements. Conduct repeated acoustic tests. As found necessary, to verify the efficiency of the rectification undertaken.
- Assist on issues where acoustic requirement are not met despite rectifications.
- Conduct final acoustic tests throughout the entire area of the project, as per requirements of M/s Acoustair Acoustic Report. Acoustic Tests to include: Airborne and impact sound insulation, noise levels related to operation of building services (FCUs, Chillers, etc.)
- Provide acoustic test report, outlining all the relevant details of tests conducted and results achieved.
- Assist with interpretation of results, attend coordination meetings, liaise with consultant, reply to queries, etc.
- All above scope include unlimited number of site visits, coordination meetings, etc. In order to assist the Client with achievement of project criteria.

SCHEDULE B - PROGRAMME OF SERVICES

| Commencement Date: | 17 January 2015 |
|--------------------|-----------------|
| Completion Date: | 31 January 2015 |

1. Milestone dates

| Activity | Date |
|----------|------|
| | |
| | an |
| | |



The Consultancy Service Provider shall take notice of the requirements and Milestone Completion Dates when producing the Service Provider's Programme.

2. Detailed Service Provider's Programme

The Service Provider shall provide a detailed programme identifying and due allowance is to be made in the programme for the Service Provider's Scope of Works including, but not limited to, the following:

- a) Deliverables for each stage and as per the Schedule A.
- b) Detailed bar chart Programme, with histogram as well as plant and equipment in order to coordinate with the overall site logistic plan.
- c) Allowance for notice periods and periods of approval.

No extension of time will be granted as a consequence of delays in submissions to planning approvals by Contractor.

"The Consultant shall within 14 days after appointment provide an extensive and detailed deliverables schedule, on the basis of the outline deliverables reflected in this document. The schedule will detail all the deliverables and associated time schedule to meet the Client's requirements and incorporation into the overall construction schedule for the project.

The lump sum price will be distribute across these deliverables and paid against technical approval"





FINAL TAKING-OVER CERTIFICATE

| Certificate Date | : 20th May 2015 |
|------------------|---|
| Project title | : Hilton Hotel Project, Doha, Qatar |
| Sub-contract No | : KCT-08-11-HHP-KCT-UCC-122-AL MANA-109 dated 15th January 2015 |
| Project Location | : Old Salata, Doha , Qatar |
| Customer/Client | : Mr. Hamad Khalifa Abdallah al Abdallah Attia |
| Contractor | : M/s. AL KHAYYAT CONTRACTING & TRADING (KCT) |
| Address | : P.O Box 201184 Doha, Qatar |
| Subconsultant | : M/S Al Mana & Associates WLL |
| Address | : P.O Box 2255, Doha, Qatar |
| | |

<u>Part I</u>

Scope of Works or specified par shall include, - Acoustic Testing & Consultancy Services

<u>Part II</u>

The above works have been completed in accordance with the provisions of Work Order/Subcontract Agreement and are now handed over finally to M/s. KCT

The Subconsultant Work performed under this Contract have been inspected by authorized representatives of the Contractor, and the Contractor Works (or specified part of the Subcontract Works, as indicated above) are hereby declared to be finally accepted in accordance with the Subcontract on the above date.

The Contractor accepts the Subconsultant works as finally acceptable and shall return to the Subconsultant the original of the bank performance guarantee (if any) and any other guarantee within () days of the date hereof.

| | Ву | stamp |
|---|-----------------------------|--|
| First Party : Contractor | Mr. Abdel Aziz I | Elgozali |
| Second Party Subconsultant | By Ar. Abdullatif Al | Mana Contraction of the second |
| This Certificate is made in (2) Two Origi | al Copies signed and stampe | d by both parties. And The |

This Certificate is made in (2) Two Original Copies signed and stamped by both parties. And Th Second party has received his original copy.

FINAL ACCOUNT STATEMENT

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| Employer | Hilton Hotel Project | Dated 20 th May 201 |
|--|--|---|
| Employer | M/s Al Khayyat Contracting & Trading | |
| Sub-Consultant Ref | KCT-08-11-HHP-KCT-UCC-122-AL MANA-109 date | ed 15 th January 2015 |
| Sub-Consultant | M/S Al Mana & Associates WLL | |
| Scope of Work | Acoustic Testing & Consultancy Services | |
| | Description | QAR |
| Original Sub-Contract Valu | e | |
| ADD | | |
| Variations/Additional - Amou | int | |
| <u>LESS</u> | | |
| Deduction | | |
| Labour on sub contract | | |
| Final Contract Value |] | |
| Retention Amount 10% | | |
| Performance Bond Retention A | Amount 0% | |
| Sub Total | | |
| | Including Performance Bond) | |
| Less : Previous Payments | | |
| Final payment due |] | QAR 0.00 |
| | | |
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| | es below that this Final Account Statement is correct and the esent the final outstanding monies due to the Sub-Consu | |
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