Al Jaber Heavy Lift

Safely onwards and upwards

HIGHLIGHTS

ICONIC PROJECTS
DELIVERING LANDMARK DEVELOPMENTS

CELEBRATING SAFETY
AN EMBEDDED ZERO HARM CULTURE

ENGINEERING EXCELLENCE
MULTI-SKILLED TEAMS, CUTTING-EDGE TECHNOLOGIES

GLOBAL SUCCESSES

INCLUDING NEW FOOTPRINTS IN BRUNEI AND MALAYSIA

WELCOME

A very warm welcome to our sixth edition of Highlights, where we take the opportunity to reflect upon and celebrate a multitude of successes since our last Highlights publication here at Al Jaber Heavy Lift (AJHL).

I am delighted to say that once again it has been a period of impressive safety results. Ours is a hazardous profession, and yet time and again our teams achieve exemplary safety records on some of the most demanding projects around the world.

These extraordinary achievements are testament to our skilled and dedicated workforce; indeed many of our safety achievements have been recognised and rewarded by our high-profile international clients, proudly reflecting our motto: 'safely onwards and upwards, creating a zero harm culture.'

It has been a period of impressive results across all regions. Our ongoing geographical expansion has been enhanced with projects in our new branches in Brunei, Malaysia and our operations in Australia, Indonesia are strengthening despite the economic situation in China. In the Kingdom of Saudi Arabia we have continued to grow by securing several notable, high-profile contracts.

By consistently delivering safe and successful projects across the globe, we have established the right basis for long-term working relationships with our clients, suppliers and employees – we thank you all. We also thank the Al Jaber family for their visionary support and all of Al Jaber Group for the shared commitment to excellence. With our 35 years of heavy lift experience we look forward to building upon these successes in the future.

Alexander Mullins
Executive Director
Al Jaber Heavy Lift Group

FRONT COVER IMAGE
Sultan Omar Ali Saifuddien Mosque, Brunei, Borneo

IN THIS ISSUE

SMOOTH RUNNING

SARAWAK, MALAYSIA

AJHL's expertise and fast-track delivery enables client to overcome extreme weather and resultant construction delays so that ultimately the project completed on a timely basis.

AJHL continues to play a pivotal role in the LNG sector, as demonstrated by its crucial involvement in a new facility on the Malaysian island of Sarawak. When the client - a renowned process engineering company and a leader in the international gas market - needed heavy-lift assistance, AJHL provided the tools for the job and the technical know-how to fast-track the heavy-lift package.

TIME CONSTRAINTS

Due to unforeseen weather changes the client's custom-built jetty, which was designed for offloading major cargo during the project, was unusable, resulting in an eight-month delay. To overcome

this setback AJHL's engineers proposed an alternative methodology to shift, barge and deliver the heavy equipment from storage to the project site.
A carefully-scheduled SPMT delivery phase using 2 PPU and 28 axle lines ensured the equipment was delivered directly under the hook of the cranes and timed to co-ordinate with the planned lifts of all the equipment. The next phase saw the Demag CC2800-1 built into 108m SSL-LSL configuration and travel to the new flare.

HEAVY LOAD

A specialised spreader beam system was designed to carry the necessary loads onto the structure as a six-point straight lift onto the building's main columns. AJHL coordinated closely with the client to lift five of the module structures before preparation works for the complex coil-wound heat exchanger (CWHE) lift got underway. Lifting the last two SK2001 modules was finally completed after the CWHE was installed, which allowed the Demag crane to finalise other smaller vessels in and around the structure. As the job came to an end the old flare stack was dismantled using a Hitachi-Sumitomo SCX2800-2.

PLANNED TO PERFECTION

With meticulous planning and utilising the best engineering practices and procedures, AJHL's revised schedule was able to fast-track the heavy lifting to mitigate the construction delays caused by the adverse weather conditions. HSE and engineering played critical roles due to last-minute changes in construction and ever-changing challenges on the work front. Building up a close relationship with the client allowed for the smooth running of all heavy lifts; and as a result, AJHL delivered the plant to the client on a timely basis.

Through building up a close relationship with the client, meticulous planning and utilising the best engineering practices and procedures, AJHL was able to ensure smooth running of the fast-track heavy lift schedule.

SAFETY AS STANDARD
SAUDI ARABIA

AJHL's supreme safety record on KSA refinery job adds to project's five million man-hours without LTI.

Heavy lifting duties on one of KSA's major oil refineries at Yanbu saw AJHL undertake a series of challenging lifts within a confined workspace, calling for precise planning, detailed engineering and tried and tested safety systems.

AJHL's remit involved lifting 111 pieces of equipment, 82 of which were fin fans. Work of this scale demanded a raft of heavy lift gear including a Demag CC8800, Demag CC2500-1, Demag AC-160 and Hitachi Sumitomo SCX2500, as well as forklifts and other support equipment.

Logistical challenges resulted from the mobilization of required resources from overseas and particular attention had to be paid to assembling the CC-2500-1 in a very congested area of the live plant.

When it came to the lifting, one of the most challenging jobs was undertaken by the 1,250Te-capacity CC-8800 which was used to erect a 269Te fractionator measuring 70m long by 3.5m wide.

Such was AJHL's commitment to safety that the project team finished their work with zero incident/accident. The client was delighted with this outstanding result and commended AJHL for helping them to achieve 5,000,000 man-hours on the project without LTI.

The client was delighted with AJHL and commended the team for helping to achieve 5,000,000 man-hours on the project without LTI.

POWERING UP KSA
SAUDI ARABIA

AJHL secures another key contract in the kingdom's power generating programme.

AJHL is establishing itself as a major player in helping KSA add power-generating capacity to its grid, as demonstrated by its central role in the construction of a new power plant in the southwest of the kingdom.

Located 135km north of Jeddah, the thermal facility is the largest-scale power plant construction project to date in the area.

When the client needed to install a large number of boilers and heavy transformers on the project, AJHL was called upon to provide equipment for the full scope of lifting activities. AJHL supplied more than 24 cranes of varying capacities ranging from 50t to 750t including a Liebherr LR1750, a Demag CC2400-1, six Demag AC100s, a Grove GMK6300, a Hitachi SCX2500, two Hitachi SCX1200s, 16 Tadano TG500/GR500s and a Tadano GR300.

Regular meetings between AJHL and the client's managers of various disciplines paved the way for effective communication and the smooth progression of the job, which was imperative given the project's remote location and ensured the critical lifts were achieved safely including the installation of a 440Te, 16m radius transformer using the Liebherr LR 1750 in 35m SSL.

The team's winning combination of detailed planning and client coordination helped AJHL finish the job on time as per the planned schedule, and with zero LTI, ensuring the firm has a well-established foothold in KSA's fast-growing power industry.

AJHL's growing reputation in Saudi Arabia is building strong relationships and helping the fast growth of industry in the Kingdom.

TEAMWORK TRIUMPH

ASIA OFFSHORE SERVICES

AOS completed a milestone project and impressed client with its flawless work on a major FPSO facility.

Asia Offshore (AOS), a subsidiary of AJHL, recently completed a milestone project by fabricating an E-house (electrical house) module for a major floating production, storage and offloading (FPSO) facility. This represented an exciting new challenge for AOS as its first E-house module fabrication which was achieved safely, on time and to the client's immense satisfaction. AOS undertook procurement and construction for the topside module, including structural and piping steel works. Engineering and design works were handled by the client while AOS parent company, AJHL Singapore provided heavy lift and transportation facilities.

OVERCOMING CHALLENGES

Operationally this was a complex job right from the outset since the project was carried out simultaneously with four other modules to be fabricated by others for the same FPSO, which meant project management and manpower along with sourcing and deployment were very challenging. Furthermore, the project duration also was very

tight at just seven months.

TECHNICAL EXPERTISE

By using Prima Vera P6 planning software on this project, AOS was able to provide the client with valuable reports on a weekly basis including project schedule, manpower histogram and a graphical presentation of progress compared to plan.

When it came to carrying out the heavy lift stage of the project, AOS deployed a 50Te crawler crane and a 90Te mobile crane with jib, supplied by AJHL Singapore. AJHL Singapore also handled the weighing and moving of the module to the quayside using SPMTs, and also managed the installation of equipment into the module.

SAFETY FIRST

On a project such as this, which involved various trades and working at height, a hazard and operability (HAZOP) card system was implemented to collect suggestions and concerns from all stakeholders including workers, supervisors, managers and visitors. Furthermore a safety incentive programme was launched in collaboration with the client, whereby every week a select number of workers were rewarded with incentives in recognition of their safety initiatives.

Despite this being the second-heaviest and largest module handled by AOS to date, the team impressed the client by completing its scope of work on schedule without LTI.

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LANDMARK STADIUM
SINGAPORE

Coordinating complex lifts is par for the course for AJHL team on landmark infrastructure project in Singapore.

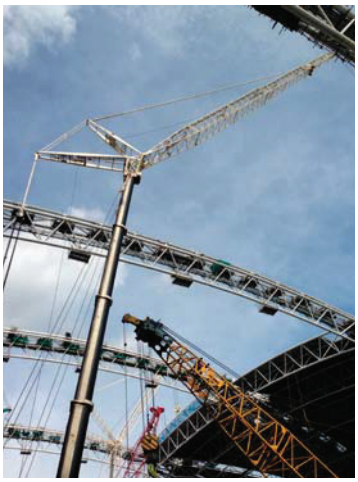
Working closely with the client, AJHL implemented scheduling adjustments to fit around other parties' on-site activities and changing timelines, successfully fast-tracking the heavy lifting without LTI.

One of the world's largest sporting infrastructure projects, the new 35-hectare Singapore Sports Hub complex features a showcase seven-storey stadium with movable roof cover and retractable grandstand. When the client, a leading Singapore-based multi-discipline engineering and construction services company, was tasked with erecting around 8,500 tons of structural steel - along with around 1,480 tons of tertiary steel - it called upon AJHL's expert assistance.

STRATEGIC PLANNING

The primary challenges on a project of this size and scale are the planning, coordination and safe completion of daily tasks within the scheduled time frame. Many contractors were involved, including civil and mechanical, as well as other crane operators, working simultaneously within a very congested work site. This meant that from time to time AJHL had to alter the configuration of its cranes to make sure there was no clash with other contractors' activities.

Since the project's construction was delayed due to other parties' activities and adverse weather conditions, AJHL's original heavy lifting planning needed to be reviewed on a daily basis. Working closely with the client AJHL implemented scheduling adjustments to fast-track the lifting of the structural steel members and mitigate construction delays. Equipment for the job included a Demag CC2800-1, a Demag CC 2800, a Demag AC 250, a Demag AC 500-2 and a Manitou forklift to assist.



Keeping on track with the revised schedule meant running 24-hour crane operations (day and night shifts) for several months, during which time the total manpower on site was doubled.

SAFETY FIRST

In spite of the numerous complex heavy lifts – fitted around other parties' on-site activities and changing timelines – the team completed all elements of the job without LTI. AJHL project managers, HSE coordinators and engineers attended weekly meetings with the client and project team. Daily HSE toolbox talks and pre-start talks were carried out with the entire work crew while weekly/monthly spot checks were carried out on individual employees and project management teams.

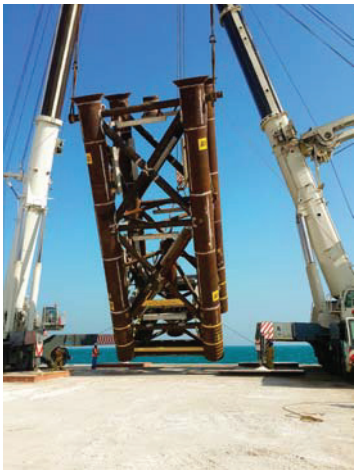
As proud proof of AJHL's robust safety strategies, strong client relationship and close cooperation with other site parties, the Singapore Sports Hub now stands as one of the finest state-of-the-art, fully integrated facilities anywhere.

MULTI-TASK PROWESS

RAS LAFFAN, QATAR

Outstanding expertise in providing heavy-lift support to the oil industry makes AJHL a key player in developing Qatar's offshore projects.

This project underlines AJHL's prowess – not only in lifting and transportation duties – but in multi-task project management and coordination scenarios.



AJHL continues to play a leading role in Qatar's oil sector. When the client, a leading offshore oil producer, wanted to weigh and transport seven MFP jackets from its fabrication yard and load them onto a barge at Ras Laffan port, it engaged AJHL's expert help and guidance.

The MFP jackets were over-dimensional and required the removal of road furniture and traffic signals during the complex transportation stage. AJHL coordinated carefully with both the government's traffic department and the client, as well as securing the availability of barge facilities for the duration of the project.

Equipment deployed during the project included load cells for weighing the jackets, 24 axles of SPMTs and two 500te

Demag AC 500 mobile cranes. Thorough planning and regular update meetings formed a critical element of the overall process, as did specific risk analysis and contingency planning.

AJHL used its vast experience to guide the project towards successful completion with zero LTI and as per the lifting schedule set out by the client.

LOGISTICAL KUDOS

MESAIEED, QATAR

Major project at Q-Chem-II's state-of-the-art petrochemical plant in Qatar is a resounding success.

Working within a live chemical plant means stringent safety requirements and significant logistical challenges. So when Q Chem-II needed a 235t replacement caustic settler, AJHL was called upon to provide expert lifting services during a 14-day scheduled shut down.

To successfully complete this complex project AJHL opted to use a Demag CC8800, a Demag AC500-2, a Demag AC250 and two 12-axle conventional trailers, along with forklifts and other support equipment. Risk assessments made during the pre-engineering phase were shared in a very clear manner during regular toolbox talks and pre-task talks. The numerous logistical challenges (no direct access, not feasible to prepare new foundations, very few plant bridges high enough) were all worked through and a new route plan developed.

Having been involved from the feasibility phase in 2013 through to project execution and completion, AJHL built up a strong working relationship with the client. This close teamwork, along with clear and open channels of communication, enabled AJHL to complete the job in time for the plant handover. What's more, despite the ultra-challenging working conditions, the team completed the project with zero lost time incidents.

> Once again AJHL demonstrated it has the professionalism and experience to complete the world's most demanding heavy lift operations.

WORK OF ART

LOUVRE ABU DHABI

AJHL gives a master class in intricate, heavy-lift duties on the Louvre Abu Dhabi.

"This impressive achievement demonstrates AJHL's engineering capabilities and commitment to providing safe, quality heavy lifting and transportation services."
- Nidal Ghaith, Operations Manager, Abu Dhabi Hub

Destined to become one of the region's most iconic structures, the Louvre Abu Dhabi is rapidly taking shape on Saadiyat Island. Designed by 'starchitect' Jean Nouvel with an extraordinary, seemingly-floating dome roof and comprising pavilions, plazas, alleyways and canals, it is one of the most hotly anticipated destination architecture projects the world has ever known.

ICONIC STRUCTURE

The steel lattice-like dome roof is the building's signature. As high as an 11-storey building, with a circumference of 565m and a diameter of 180m, the dome roof is perforated with interlaced patterns so the light diffuses through it. Following the client's fabrication of the steel roof structures, AJHL was called upon to transport the 85 steel roofing components to site before lifting them onto 120 temporary foundations. To achieve this, AJHL used self-propelled modular axles and a 1,250Te Demag CC 8800 crane (particularly suitable as it is fitted with an IC-1 control system comprising touch screen control, ground pressure indicator and auto-diagnostic functions for on-site troubleshooting).

HEAVY METAL MOVER

Before the 85 roofing sections could be lifted the team had to navigate the challenge of moving the Demag CC 8800 in full configuration from its first location to the second and then third location. Only when this task was achieved could the lifting of the steel structures be completed.

AJHL undertook a route survey and advised the client on potential road modifications as well as the removal of any hindrances.

CLOSE COORDINATION

Next step was the complex installation of the steel structures at a radius of 114m. This relied upon AJHL's technical skills and know-how since the area where the crane was to be placed was congested with numerous obstructions including tower cranes working nearby. Then during the lifting phases continuous checking of the wind speed proved to be vital to ensure it remained within the required limit.

This all required careful coordination and fluid teamwork to meet a limited window of opportunity (based on the wind speed at that day), particularly because placing the lifting tackle for the crane is a complex and time-consuming procedure. Despite the intricacy of the task the team installed all 85 structures on time without LTI and injury-free, a resounding success.

UPPING THE ANTE

BRUNEI, BORNEO

AJHL provides vital heavy-lift expertise on new power plant installation.

MOTIVATED TEAMWORK

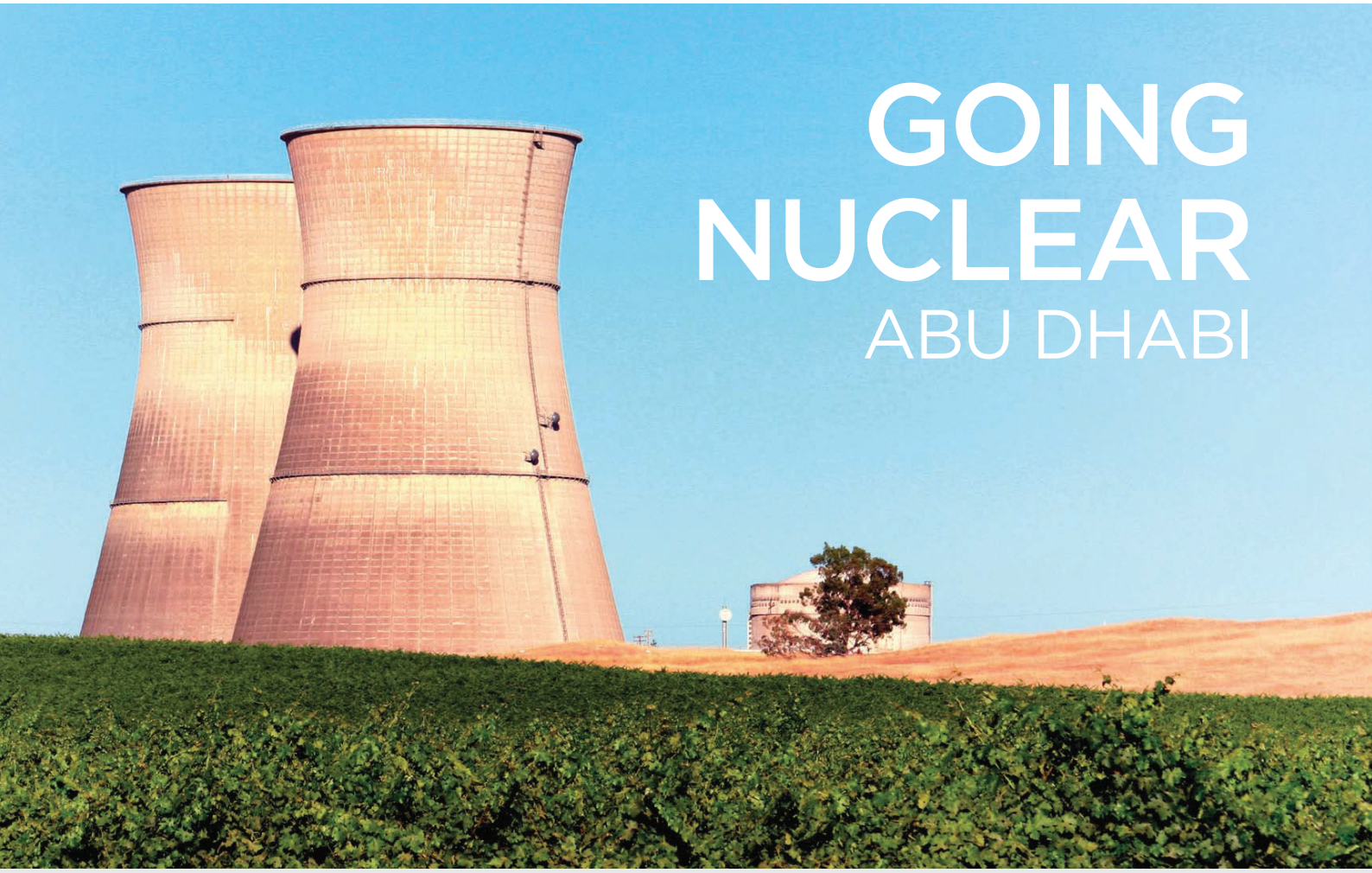
The client was operating under a very tight delivery schedule since the units could only arrive on the project once the building was ready. AJHL and the client worked closely together on a schedule to barge the equipment to Brunei, truck in the units and install them, all within a 12-hour window from delivery to installation.
Precise technical planning of the heavy-lift crane movements ensured a safe and trouble-free lifting process despite the narrow time schedule and logistical challenges.

The project is another example of AJHL's ability to plan and execute a safe heavy lifting programme and paves the way for future successes in Borneo.

When a leading mechanical and engineering contractor needed a crane to undertake the heavy lift package on a new re-generation plant in Borneo, it drew upon its well-established relationship with AJHL to ensure the job was in safe hands.

LOGISTICAL CHALLENGES

AJHL's remit was to assist with the installation of four new, state-of-the-art heat recovery steam generator units (HRSGs) at the new facility. The plant's location within the already-running existing plant facilities made the job more difficult due to the very small construction area. For this reason a Terex Demag CC2800-1 crane in SH configuration with 48m boom was chosen for its excellent lifting capacities and relatively small working footprint.



GOING NUCLEAR
ABU DHABI

AJHL team coordinates complex lifting duties on the UAE's first-ever nuclear power plant.

AJHL brought its wealth of expertise on international power projects to provide vital heavy-lift services on the construction of the UAE's first nuclear power plant. Located 300km west of Abu Dhabi city, the Baraka plant is the first of four nuclear power stations the UAE aims to have up and running by 2020.

AJHL provided lifting duties using a 1,600Te capacity Demag CC8800-1 crawler crane with various configurations according to site conditions, ranging from 72m SSL to 138m-long SSL/LSL configuration. The flexibility and relative ease of moving from one lifting area to another made this the optimum crane for this type of installation.

Travelling the Demag CC8800-1 presented initial challenges with regard to the capability of the road to withstand the bearing pressure of the crane; and whether the road was wide enough for the equipment to manoeuvre. By undertaking a detailed route survey the AJHL team was able to advise the client of any potential issues and enable modifications as required.

Erecting the 560Te, 22m-radius reactor vessel presented further challenges regarding ground-bearing pressure and crane manoeuvrability. To counter this, AJHL recommended developing an appropriate safety exclusion zone as well as monitoring wind speed limits. During the critical lifting of the 207Te, 73.9m-radius GI girder, the team again advised the client which area should be level, backfilled and compacted.

By developing such inclusive engineering packages comprising method statements, risk assessments and transportation studies, the team ensured the work was conducted safety and in compliance with ISO 9001:2000.

The overall result was a cost-effective and timely solution for the client.

ON TOP DOWN UNDER AUSTRALIA

AJHL's men at work power safely onwards and upwards in Australia.

AJHL is rapidly extending its reach in the Australian market by winning high-profile and long-term contracts with prestigious clients, including heavy crane hire and heavy transport. In particular the firm's expertise is proving a vital asset to environmentally sensitive marine projects.

One of AJHL's latest jobs saw the team lend their heavy-lift support to the construction of a new iron ore loading berth at Port Hedland, Western Australia. The project included the design and construction of a 306m long wharf extension, seven berthing dolphins and the supply and installation of wharf conveyor modules. AJHL's remit was to supply a Terex-Demag CC 2500-1 500-ton crawler crane to be placed upon a floating barge in order to lift the piles during the construction phase of the wharf berth.

Being involved from the initial planning stages meant AJHL could ensure the capability as well as availability of the crane for the client's project, and furthermore enabled AJHL to complete a feasibility study to ensure the crane's capacity to undertake the project from a floating barge. Precise planning along with careful coordination and teamwork between AJHL and the client led to the successful completion of this complex marine lifting operation ahead of time.

Once again AJHL's special focus on HSE and its own rigorous quality control procedures surpassed the client's expectations, paving the way for more yet more high-profile projects in Australia.

PLANNED TO PERFECTION

RUWAIS, ABU DHABI

Attention to detail ensures AJHL completed major lifting operations at oil refinery safely and on time.

AJHL has played a significant role in the expansion of one of Abu Dhabi's key oil refineries in Ruwais.

A key element of the project was the construction of a carbon black and delayed coker (CBDC) plant, installed as part of the Ruwais Refinery Expansion. AJHL was engaged to plan and execute 12 major lifts along with heavy transportation. A range of equipment was deployed by AJHL on the project including a 3,200Te Demag CC 8800-1 TWIN crane, used for two lifts with the SFVL configuration 117+15m; and two Demag CC 2800-1 tailing cranes each with a capacity of 600Te.

From the outset AJHL forged a strong working relationship with the client based upon mutual trust and clear channels of communication. AJHL's vast experience, from core engineering and technical drawings through to site visits and providing equipment, through to the final successful project execution, enabled the team to provide the client the full, complete package on the Ruwais CBDC project.

At 118m high, the 1,480Te propane splitter represented the most critical and challenging lift on the project, bearing in mind that it is the tallest vessel ever erected in the UAE. Elsewhere, the lifting and rigging of the heavy Demag CC 8800 crane called for careful checks to ensure the surface of the new construction site could withstand the ground bearing pressure (GBP). Also, during the erection of the splitter, wind speed was constantly checked to ensure that it was within operational parameters during the lifting procedures.

The significant success of this project has resulted in several confirmed future projects.

This project demonstrated strong working relationships with the client as well as an absolute dedication to planning and safety.

LOAD-OUT EXPERTS
MUSSAFFAH, ABU DHABI

Complex load-out task demanding millimetre accuracy is a resounding success in Abu Dhabi thanks to detailed preparation and teamwork.

AJHL strengthens its world-class reputation for planning, professionalism and seamless execution.

Transporting, loading out and loading in a 2,084Te marine structure destined for the Arctic is a far from straightforward task. The successful completion of the job underlines AJHL's world-class reputation for planning, professionalism and seamless execution.

Eighty-eight axle lines of self-propelled modular transporters (SPMTs) were used with four power pack units for the load-in and load-out works of the substructure base, as mobilising and assembling the SPMTs is more convenient than rigging a huge crane on the site. The SPMTs were moved by barge from the load-out location to the load-in location. By using the SPMTs, the RO-RO operation was completed with pinpoint accurate positioning on the barge and uniform axle load distribution on the deck. This in turn enabled the barge crew to ballast the barge appropriately and shift the structure to the client's yard in Mussafah.

AJHL provided expert guidance throughout the duration of the project and the team's in-depth knowledge of the job procedure and possible risks involved enabled the project to be completed without lost time incident or injury.

REACHING FOR THE SKY

ABU DHABI AIRPORT

AJHL plays a vital role on one the UAE's most prestigious projects.

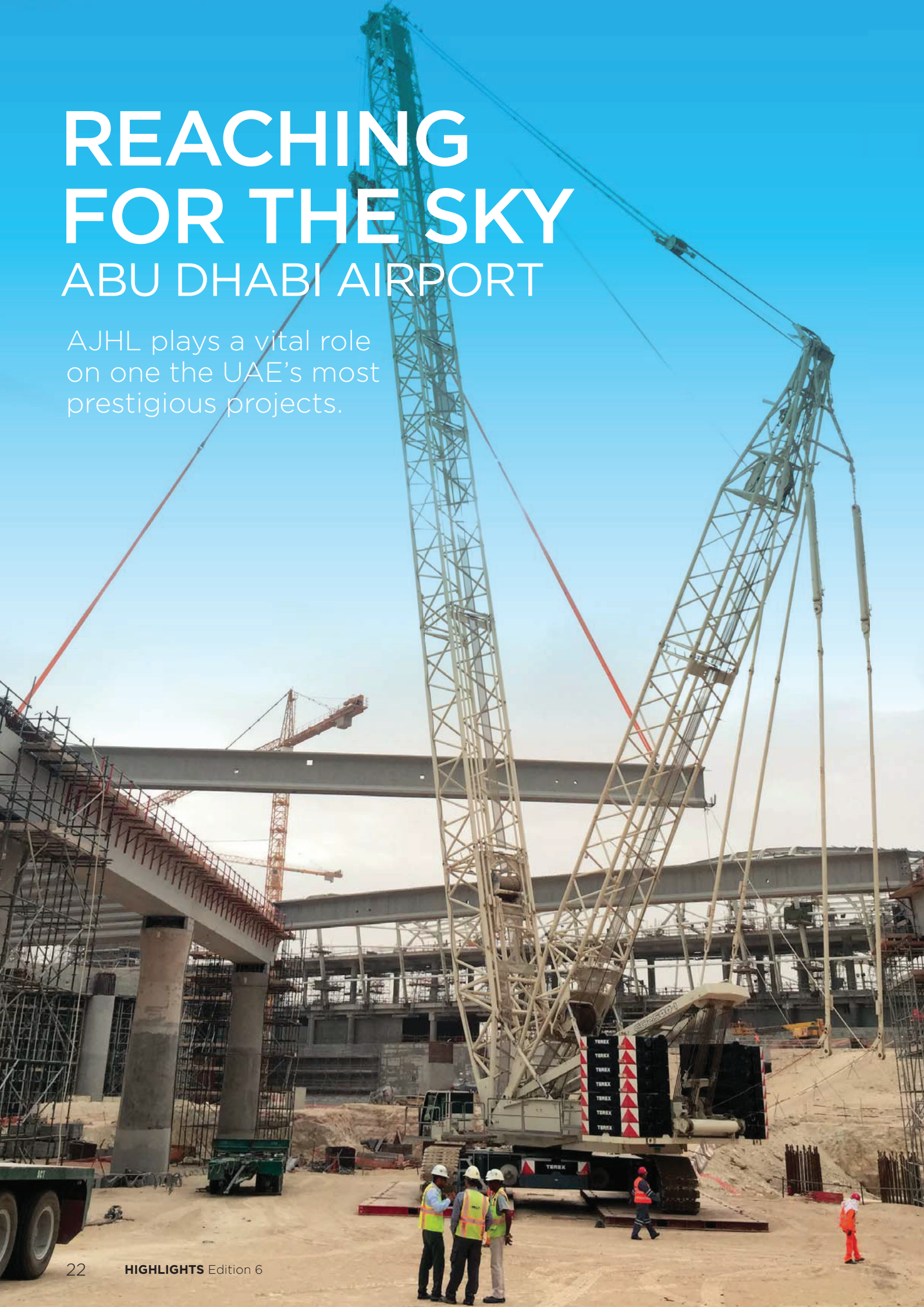


Image courtesy of Abu Dhabi Airports

Construction of Abu Dhabi Airport's USD3.2 billion Midfield Terminal Building (MTB) is well underway in the UAE capital. Spanning 750,000 square metres, the project will provide passenger and cargo facilities, duty-free shops and restaurants for up to 40 million travellers per year, and will be the home of the emirate's national carrier, Etihad Airways.

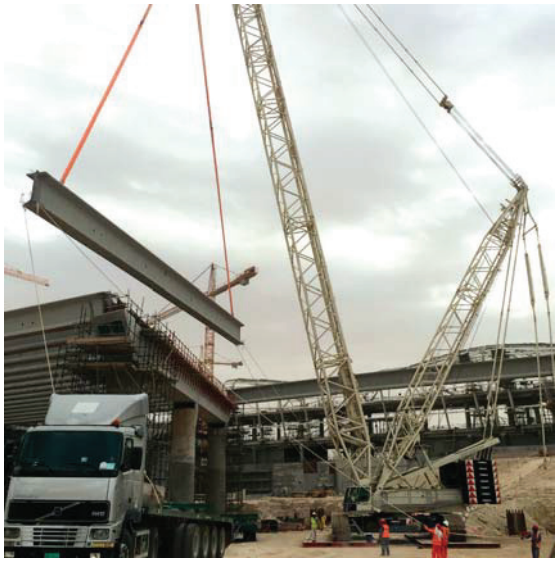
PROJECT COMPLEXITIES

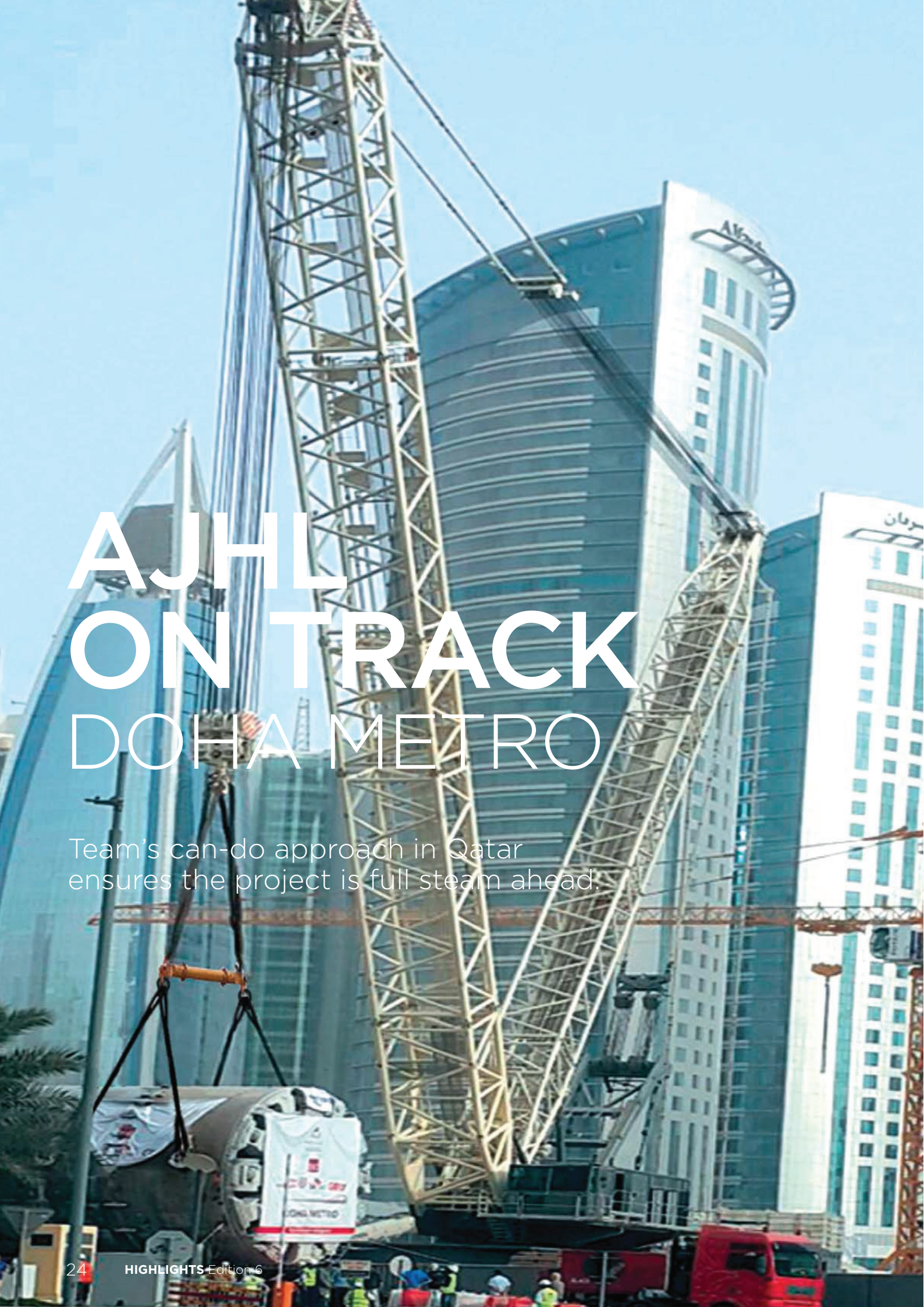
The complexity of the structure in both design and shape presents numerous challenges in terms of engineering, construction and procurement. Due for completion in 2017, the X-shaped MTB is located between two runways. The client engaged the services of AJHL to assist with a variety of heavy lift tasks on site. Joining the project in the early stages enabled AJHL to draw upon its in-depth knowledge spanning core engineering, planning, engineering drawings, site visits and project execution to provide the client with the detailed lifting solutions for various elements of the project.

COMPREHENSIVE PROCESSES

To complete specific installation tasks on this project AJHL provided three crawler cranes with luffer/tower configurations: a Demag CC 2800-1, a Demag CC2800 and a Demag CC2500-1. During rigging and lifting phases, AJHL's comprehensive processes overcame all obstructions, other contractors' activities, wind speed variations and other logistical variables.

AJHL's comprehensive safety strategies, quality procedures, engineering expertise and strong client relationship contributed to its outstanding success on this landmark project, and helped to further underline its reputation for delivering excellence as standard.





AJHL ON TRACK

DOHA METRO

Team's can-do approach in Qatar ensures the project is full steam ahead.

Image courtesy of Qatar Rail

AJHL has a long-established reputation around the world for providing invaluable support to the oil and gas sectors; however Qatar's Doha Metro presented the firm with an exciting opportunity to showcase its heavy-lift diversity on one of the GCC's landmark infrastructure projects.

STATION LIFTS

AJHL's remit was to complete two tunnel boring machine (TBM) lifts (each weighing 450Te) within a tightly-scheduled time period, at West Bay Center station and Al Wahda station. After evaluating the job's requirements AJHL proposed a Demag CC 8800-1 (1,600Te) in 48m SSL configuration for loading onto transportation, and a Demag CC 8800 in 48m SSL configuration for offloading from the transportation at the respective stations.

CHALLENGING LOCALE

The location of the project presented significant challenges. Both stations are in the heart of Doha city so intensely monitored safety precautions had to be taken to protect people, as well as equipment and structures, in the site vicinity. Furthermore this was the first time AJHL had worked with the client – itself operating as a consortium – plus there was the need to deliver a competent technical and commercial proposal in strict accordance with Qatar Rail and the client's standards.

IN SAFE HANDS

The timely mobilisation of the crane components from overseas to the site location within the specified time limit, along with assembling the crane in such a limited available space, added further complexities. One of the key challenges in particular was mobilising 600 tons of super-lift counter weights from the first crane location (West Bay Center) to Al Wahda station (approximately 10km away) in a single night and in accordance with the city's traffic regulations. Despite the confined-space work site and significant time constraints the team ensured the successful completion of the two TBM lifts within three days. At all times AJHL complied fully with civic regulations to ensure there was minimal traffic disruption and of course the utmost care for safety. As with all time-sensitive jobs, effective planning, communication and stringent safety operations were imperative.

"Careful coordination and cooperation was established from the word go to ensure the client's expectations were not only met, but exceeded." - Seby Phillips, Engineering Manager, Doha Hub

ENGINEERING EXCELLENCE

STANDALONE SERVICES

AJHL's engineering and project management capability is the cornerstone of its global success.

Over the last 35 years AJHL has forged a solid reputation around the world for its heavy lift experience, technical know-how and uncompromising approach towards safety standards. A crucial element of this success is the firm's highly impressive engineering and project management capability.

The engineering department is a driving force throughout AJHL's business hubs and branches and plays a vital role across all project stages, from bidding, planning and designing through to liaising with clients on technical matters, designing project methodology and safely executing tasks on site.

Complex lifting jobs demand high-tech solutions. Therefore AJHL's multi-skilled teams use the latest technology to ensure the firm remains at the cutting-edge of engineering and project management, regardless of location.

AJHL's full range of engineering capabilities are also available as standalone services. Capabilities include: 2D & 3D AutoCAD software for drawings; Primavera software for resource planning; animation capabilities; Front End Engineering & Design (FEED) studies; project execution and site supervision; best industry practice, integrated and comprehensive project documentation and work packs; trial/validation of engineering studies prior to execution of critical lifts; and research and development - to ensure AJHL continues to lead the way in innovation, engineering and project management.

AJHL thanks all the engineers in all our business hubs for their crucial contributions to the team.

Engineering services include:

- 2D & 3D AutoCAD
- Primavera planning software
- Animation capabilities
- FEED studies
- Project execution & site supervision
- Best practice documentation
- Trial/validation of engineering studies
- Research & development

A FOND FAREWELL
COR HOPPENBROUWERS

AJHL bids happy retirement to industry heavyweight.

After notching up more than 50 years' experience in heavy lift, overland and marine transportation, Cor Hoppenbrouwers retired in July 2015.

Cor, who is a well-known and highly-respected industry heavyweight in the heavy lifting and heavy transportation industry, was employed with AJHL for many years. During this time the Dutchman shared with the AJHL team his global expertise and his extensive experience offered a valuable insights for the firm's engineering and management staff.

It was always a privilege and a pleasure working with Cor, who was renowned for remaining calm and level-headed when working under pressure. All the team from AJHL thank him for his contribution to the heavy lift industry and wish him a happy retirement with his family.

Cor's contribution to the heavy lift industry and the AJHL team will be long cherished and much missed.

A WORTHY CAUSE

CHARITY FUNDRAISING

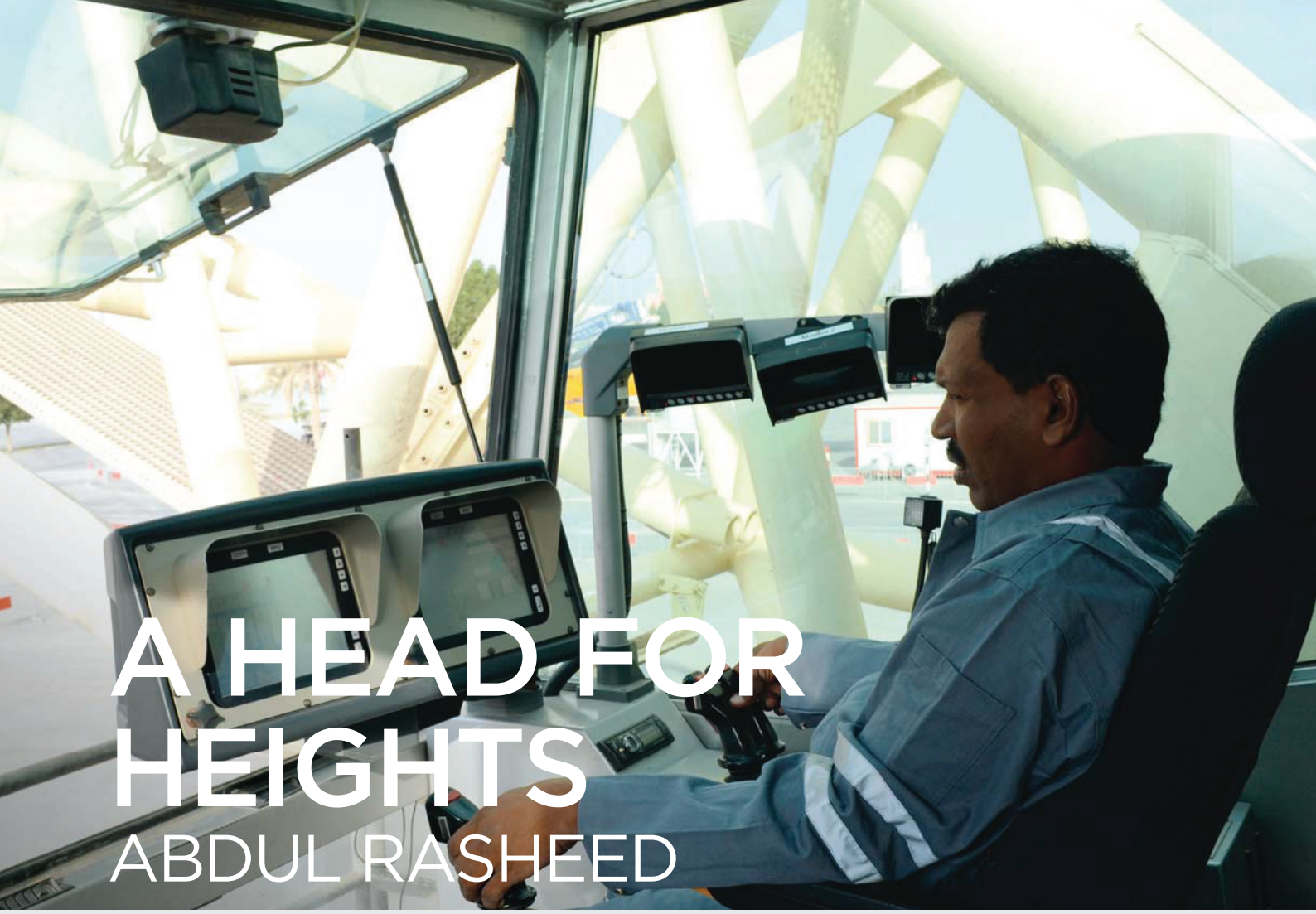
AJHL joins forces to help raise AED700,000 for Abu Dhabi-based charity

The prestigious gala held under the patronage of HE Sheikh Nahyan bin Mubarak Al Nahyan, UAE Minister of Culture, Youth and Community Development; and Philip Parham, British Ambassador to the UAE was again a great success and AJHL is proud to continue its support of such a worthy cause.

Senior staff from AJHL, along with selected clients, joined high-profile officials and ambassadors at The Future Centre for Special Needs' 12th annual gala dinner at the British Embassy in Abu Dhabi.

Attended by more than 500 guests and held under the patronage of HE Sheikh Nahyan bin Mubarak Al Nahyan, UAE Minister of Culture, Youth and Community Development and honorary president of The Future Centre; and Philip Parham, British Ambassador to the UAE; this year's fund-raising campaign raised almost AED 700,000 for The Future Centre.

AJHL has been a regular supporter of The Future Centre for a number of years. Launched in 2000, the non-profit organisation aims to enhance the education of children and young adults with special needs including autism spectrum disorder, Down syndrome and speech and language disorders.



A HEAD FOR HEIGHTS
ABDUL RASHEED

Abdul Rasheed's rise from assistant to heavy lift expert

A rigging specialist and operator for crawler cranes up to 3,200Te capacity, Abdul Rasheed's career with AJHL spans more than 25 years. During this time he has progressed steadily through the ranks.

Ever since starting out as a helper in 1990, Rasheed's determined effort and commitment have ensured steady promotion within AJHL. Between 1991 and 1993 Rasheed began operating the lower capacity cranes and, as he built up his experience, he was promoted to higher capacity crawler cranes. The following year he was promoted to heavy crane operator for a Demag TC1200, 350Te capacity truck mounted lattice boom crane. Since 2002 he has been operating the flagship CC8800 series crawler cranes: 1,250Te, 1600Te and 3,200Te.

Originally from India and with a working knowledge of Malayalam, Hindi, English and Arabic, Rasheed's career at AJHL has seen him undertake a variety of prestigious heavy lift projects across the GCC, Asia and Europe. In addition to being a valuable team player he is highly regarded by clients for his safe, successful and on-time project completions. And Rasheed is now sharing his knowledge by acting as a mentor and trainer for junior team members.

Maintaining the highest levels of safety lies at the heart of AJHL's global success story; key members such as Rasheed enable the firm to successfully complete the most demanding transportation and heavy lift tasks.

5,000,000 REASONS TO CELEBRATE

SAFETY LANDMARK

Al Jaber Heavy Lift passes monumental landmark without loss time incident.

AJHL recently hosted a landmark ceremony at its Mafraq yard facility in Abu Dhabi to mark the successful completion of five million man-hours without lost time incident (LTI) by the AJHL Group of companies..

The celebrations were a chance for AJHL's senior management to congratulate all members of staff throughout the company who have made this possible. It represents a remarkable milestone and is truly a joint effort. Congratulations to all for this outstanding achievement.

The event was attended by senior management, corporate team members and staff, and also included special recognition for long-serving employees who have notched up over 20 years working at AJHL. Award presentations were also made to 'Man of the Month' and 'Man of the Year'.

After the function, AJHL's mobile training unit at Mafraq hub was inaugurated, a new facility which is set to become a valuable on-site resource to help us work towards the next five million man-hours without LTI.

More over, at the time of printing this Highlights AJHL completed four consecutive years without any Lost Time Incidents.

> Five million man-hours without LTI represents a remarkable milestone and is truly a joint effort. Congratulations to all for this outstanding achievement.

SAFETY RECOGNITION IN SINGAPORE

Sharif Showkat (Operations Manager, Singapore Hub) receiving safety achievement award on behalf of AJHL from the client.

AJHL notches up another win in Asia with the completion of a challenging refinery project.

Following the safe and successful completion of intricate work on a refinery job in Singapore, the client expressly thanked all the subcontractors including AJHL for their contribution to the project during an award ceremony to acknowledge sub-contractors' hard work and commitment.

The JLXP project completion ceremony was held at Singapore's prestigious Hotel Fort Canning where the main client expressed their appreciation to AJHL's team.

The Jurong Lubes Expansion Project (JLXP) was a complex shut-down project during which AJHL transported and erected a 140Te, 49m-radius vacuum stripper in a very congested area, using an LR 1750, an SCX 1500-2 and 12 axle lines of SPMTs.

Al Jaber Heavy Lift

Safely onwards and upwards

www.ajhl.com