

## MAKING LIGHT WORK OF HEAVY LIFTING





# WELCOME


As we reflect on the past year we do so with confidence and optimism, even amid significant global challenges. The resilience of our management team, supported by the strong foundation of trust and reliability built over the years, allows us to move forward with clarity and purpose. This strength continues to drive our strategic expansion, operational restructuring, and commitment to delivering worldclass heavylifting and transportation solutions across global markets.

To meet the growing requirements of our customers outside the Middle East, we have restructured our management teams to serve a wider geographic footprint, spanning Russia, Africa, and the Far East. This ensures our clients receive professionally managed, state-of-the-art equipment supported by world-class engineering services. We have also expanded our workforce, welcoming highly qualified, multinational professionals who bring deep expertise and global perspective to our operations.

This year marked a major milestone with the award of the transportation, lifting and warehouse services for the Singapore Parallel Train Project (SPT). This achievement reflects the trust placed in our capabilities and reinforces our position as a dependable partner for complex, highvalue projects. To support this and future work in the region, we have opened a new regional office in Singapore, which will serve as our operational hub for the Far East going forward.

To enhance alignment across our expanding network, we are preparing for the relocation of AJHL's Abu Dhabi branch from Mussafah to a new, purpose-built facility in Mafraq. Scheduled to be operational in the first quarter of 2009, this eight-hectare site includes a dedicated testing, training, and commissioning area engineered to withstand extremely high loads. This investment reflects our commitment to operational excellence, workforce development, and the safe commissioning of advanced heavy lift equipment.

Safety remains central to our operations. AJHL has completed 2.5 million man hours without a lost time accident, a remarkable achievement that speaks to the dedication of our management, staff, and the unwavering support of our clients.

As we look ahead, AJHL remains focused on strengthening its global presence, expanding its technical capabilities and delivering solutions that set new benchmarks for safety, efficiency and engineering excellence. With a stronger team, a broader geographic reach, and a clear strategic direction, we are well positioned to safely meet both the challenges and opportunities ahead. 

**Alexander Mullins**  
Chief Executive Officer - Al Jaber Heavy Lift



**FRONT COVER IMAGE:** Offshore lifting expertise delivers awless jacket installation in Malaysia within a critical 72-hour window.  
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# A NEW ERA OF LIFTING CAPABILITY **TWIN POWER** IN ABU DHABI

AJHL is proud to introduce the newest addition to its fleet, the 3,200-tonne-capacity Demag CC8800-1 Twin lattice boom crawler crane, one of the most powerful and versatile lifting machines in the world.

Procured as part of AJHL's long-term investment strategy, the crane was fully rigged and commissioned at the company's Musaffah yard, marking its readiness to support upcoming major projects across international markets.

The CC8800-1 Twin delivers exceptional lifting capacity and stability, enabling the execution of ultra-heavy and high-elevation lifts that were previously beyond the reach of conventional crawler cranes. Its introduction significantly expands the capabilities of AJHL's fleet, opening new opportunities in large-scale infrastructure projects.

The commissioning ceremony was led by Al Jaber Group's Chairman Mr. Obaid Al Jaber, President Mohamed Al Jaber Al Marri, and COO Fatima Al Jaber. 




# OFFSHORE READY IN UAE

## AJHL delivers 660 tonne jacket via multimodal transport

A leading EPC contractor serving the offshore oil and gas industry contracted AJHL to execute a multimodal heavy-haul operation involving the overland transportation, loadout, and marine transfer of an offshore jacket weighing 660 tonnes.

AJHL deployed 52 axles of SPMTs with two PPUs for the land transport and loadout of the jacket on to a barge, the Marsol 21, for its delivery to the offshore installation site. Due to the

nature of the operations, all permits including approvals from port authorities and coastal guards were secured in advance.

The successful execution enabled the client to proceed with offshore installation activities without delay, reinforcing AJHL's reputation as a trusted heavy transport partner for large offshore structures. 





# HEAVY TRANSPORT REDEFINED QATAR

One of the largest SPMT configurations ever deployed enables the safe delivery of a colossal reactor for the world's largest gas-to-liquids plant in Qatar

While constructing the world's largest gas-to-liquids (GTL) plant at Ras Laffan Industrial City in Qatar, the national oil and gas producer required expert heavy transport and lift capabilities to handle the plant's critical, oversized components.

AJHL was selected by the project's principal heavy lift and transport engineering contractor to transport and install a reactor, the core component of the GTL plant, starting with the offloading of the reactor from a marine vessel to SPMTs at Ras Laffan Port, continuing with overland transport to the construction site, and concluding with positioning of the reactor onto its foundation.

The complexity of the project presented several significant technical and operational challenges.

**Safe handling of oversized cargo:** The sheer size of the reactor, weighing 2,300 tonnes, 10m in diameter, and 52 m in length, placed immense loads on the ground and equipment throughout the heavy transport operations. This demanded meticulous transport engineering, specialised heavy equipment, and rigorous planning and precise coordination across multiple locations.

**Route management:** The reactor had to be transported 12 km within the Ras Laffan Industrial City, which demanded detailed route surveys,

potential route reinforcements, and careful navigation of obstacles such as road camber, gradients, and site infrastructure.

**Precise placement:** The final positioning of the reactor onto its foundation required millimetre-level accuracy under immense load conditions.

**Seamless collaboration, shared risk management**

AJHL partnered with the principal heavy lift and transport engineering contractor from the early planning stages, providing critical input across resource planning, regulatory compliance, and risk management. This collaboration allowed engineers from both companies to jointly design the SPMT configuration, validate load distribution calculations, and integrate equipment and crew seamlessly into the execution phase. Early involvement was pivotal in identifying



and mitigating operational, safety, and environmental risks, guiding the development of comprehensive methodologies and plans for the reactor offloading and transport, and establishing robust safety and communication protocols.

**Operationally ready equipment:** The selection of equipment was driven by several factors including the dimensions and weight of the reactor and the proven reliability of the equipment in complex operations.

An unprecedented and complex configuration of SPMTs and PPU (Pneumatic Pusher Unit) with built-in redundancy were required to distribute the 2,300-tonne reactor's weight within approved ground pressure limits across the transport route.

SPMTs with 108 axle lines and 6 PPUs were selected for the offloading and overland transportation of the reactor due to their

exceptional manoeuvrability and ability for optimal load distribution.

**Integrated teamwork:** AJHL deployed a dedicated team of specialists, including project managers, engineers, transport superintendents, SPMT operators, supervisors, riggers, technicians, and HSE officers, all working in strict compliance with safety protocols and daily operational briefings. This team operated as an integrated unit with its counterpart from the principal heavy lift and transport engineering contractor.

**Unwavering safety commitment:** Safety was the nonnegotiable foundation of all operations, upheld through a proactive approach that systematically identified potential hazards and assessed risks associated with each phase of the operation, from the offloading of the reactor at the port to its final installation at the site.

The major risks included SPMT system failure, route subsidence, collision with site infrastructure, adverse weather conditions such as high winds, and challenges during integration with the client's equipment. To mitigate the risks, stringent control measures were applied, such as continuous ground monitoring, maintaining a slow and controlled transport speed, establishing a defined exclusion zone around the convoy, implementing real-time weather monitoring, and enforcing strict protocols for the interface between different SPMT sets and control systems.

All risks were assessed and categorized using a qualitative matrix to ensure resources were directed to the most critical areas, while continuous communication through mandatory toolbox talks and pre-task briefings ensured all team members understood the risks, the control measures, and their responsibilities.


**Strict regulatory compliance:** Given the high-risk nature of the overland transport operation, all procedures, from the offloading at the quayside to the final placement of the reactor, required formal approval from the marine warranty surveyor.

A comprehensive inchbyinch survey of the 12kilometre route was carried out, followed by engineering analysis and civil works to reinforce roads, corners, and crossings. Detailed transport engineering studies were developed for the SPMT configuration, load distribution, and trailer stability, each requiring client and contractor approval. In addition, a traffic management plan was implemented to control and, when necessary, completely halt site traffic along the route to accommodate the size of the convoy.

**Unified teams, unmatched results**

The meticulous planning, engineering, and collaborative framework established by AJHL and the project stakeholders enabled the execution of the highly complex offloading and heavy transport operation on schedule with exceptional standards of operational, technical, and safety performance.

The outstanding achievement was the flawless execution of one of the world's heaviest land transports, successfully moving the 2,300tonne reactor over a 12kilometre route and placing it precisely on its foundation. This landmark operation featured the formation and operation of a 108axle line SPMT configuration, the seamless integration of AJHL's equipment and personnel with those of the principal heavy lift and transport engineering contractor to create a unified transport system, and the completion of the complex journey without incident.

This project demonstrated AJHL's unique capability to supply critical equipment and expertise for highly challenging transport operations, while collaborating with all stakeholders to ensure safe and successful execution. 

# STEEL POWERLIFT UAE



## AJHL hoists 490 tonne reactor inside UAE industrial complex

The leading steel producer in the UAE contracted AJHL to lift and position a 490 tonne reactor vessel within its factory complex in Abu Dhabi.

AJHL's engineering team developed a detailed lift methodology, which was reviewed and approved in coordination with the client's project team.

A 1,600-tonne Demag CC8800 1 crawler crane was selected due to its lifting capacity, reach, and stability to execute the lift within the constrained industrial environment.

The reactor vessel was successfully lifted and positioned on schedule, reinforcing AJHL's capability to execute high-tonnage lifts in congested industrial environments and the company's reputation as a leading heavy lift contractor for industrial and manufacturing clients in the UAE. 🇦🇪



# HEAVY HAUL MASTERY IN QATAR BRANCH

AJHL executes overland transport and erection of polymer plant vessels in Qatar

An international EPC contracting company contracted AJHL for the transport and erection of major process vessels to produce thermoplastic polymers at a petrochemical plant in Masaieed Industrial City, Qatar.

AJHL executed the overland transport by using 56 axle lines of SPMTs and the lifting operations by using a 1,600 tonne capacity crawler crane, under strict safety and engineering controls.

AJHL completed all heavy transport and vessel erection operations safely and on schedule, enabling the contractor to maintain progress on the construction of Qatar's LLDPE production facility. The project reinforced AJHL's reputation as a leading heavy lift contractor for petrochemical megaprojects in the region. 🇶🇦



# DESERT HAUL UAE

## AJHL moves 327 tonne slug catcher across Abu Dhabi's gas pipeline corridor

As part of the expansion of onshore gas processing facilities in Abu Dhabi, the UAE's primary oil and gas producer contracted AJHL to execute the overland transportation of a 327 tonne slug catcher for a gas pipeline project in Abu Dhabi.

AJHL executed the transport operation by deploying 20 axle lines of conventional trailers with a prime mover to move the oversized vessel from the fabrication yard to the installation site.

The slug catcher was delivered safely and on schedule, enabling the client's project team to proceed with installation and commissioning activities. The successful execution reinforced AJHL's reputation as a trusted heavy transport partner for major onshore gas infrastructure projects. 🇦🇪



# STANDING TALL

## TWIN POWER

AJHL transports and installs jack-up rig legs for liftboat in Abu Dhabi

A UAE based international operator of oil rigs and offshore support vessels contracted AJHL to execute the transport and erection of four 66 metre jack up rig legs, each weighing 220 tonnes and with radius of 76m, on one of its self-propelled self-elevating accommodation jack-up barges in Abu Dhabi.

The operations were executed using SPMTs for overland movements, supported by a newly commissioned 3,200 te Demag CC 8800 1 Twin crawler crane as the main crane along with a 230 te Manitowoc 4100 crawler crane for tailing.

The transport and erection of all four rig legs were completed safely and on schedule, enabling the jack-up barge to proceed to final commissioning and offshore deployment. The project reinforced AJHL's position as a regional leader in heavy lifting for offshore support vessels and jack up structures. 🇦🇪



# MASSIVE MODULE MOVERS ENGINEERED LOADOUTS IN UAE



AJHL executed a series of major heavy transport and load out operations in Abu Dhabi at the fabrication yard of a leading UAE-based fabrication and engineering contractor serving the offshore oil and gas industry.

The projects involved weighing, transportation, and barge load out of multiple large scale modules, with individual weights ranging from 400 tonnes to 8,000 tonnes, fabricated for international clients including some of the world's major energy companies and EPC contractors.

The modules varied significantly in geometry and weight, requiring tailored SPMT configurations for each transport operation.

AJHL successfully completed all module weighing, transport, and load out operations on schedule, and without disruption to the operations at the fabrication yard.

The projects demonstrated AJHL's ability to deliver engineered heavy lift and heavy transport solutions for complex offshore and onshore energy projects. 🇦🇪

AJHL handles multiple heavy transport and loadout operations in Abu Dhabi with precision





# WHERE EXPERIENCE MEETS PRECISION LIFTING


AJHL lifts 455 tonne reactor for petrochemical expansion project in Abu Dhabi



The UAE's primary oil and gas producer undertaking one of the largest petrochemical expansion projects in the country contracted AJHL to execute the lifting and vertical installation of a 455 tonne gas phase reactor at the Ruwais Industrial Complex in Abu Dhabi.

The operation required a high capacity tandem lift using AJHL's Demag CC 8800 1 crawler crane as the main lifting

unit and a Demag CC 8800 as the tailing crane.


The gas phase reactor was installed safely and on schedule, enabling the petrochemical production facility to progress toward commissioning. The successful execution reinforced AJHL's reputation as a regional leader in heavy lifting for petrochemical mega projects. 

# CROSS BORDER COMPETENCE UAE TO SUDAN

## AJHL orchestrates multimodal logistics to deliver oilfield skids from UAE to Sudan

AJHL was contracted to execute a multi stage heavy transport and marine logistics operation to support a major oil development project in Sudan. The scope involved the overland transport of large oilfield skids from Mafraq to Mussafah in Abu Dhabi, loadout onto barges at Mina Zayed Port, and delivery to a heavy lift vessel bound for Sudan.

This multi modal operation ensured the skids reached the heavy lift vessel safely and on schedule for its departure, supporting the construction and commissioning schedule of the project in Sudan.

The successful execution demonstrated AJHL's ability to support international oil and gas developments from the UAE and execute complex multi modal logistics operations integrating land and marine transport and port load outs. 



# OFFSHORE RELIABILITY

## AJHL delivers the complex transport and tidal-critical loadout of 1,800-tonne offshore process module

A UAE-based energy EPC contractor involved in the construction and delivery of a heavy offshore process module turned to AJHL, its longstanding and dependable partner, to execute the complex transportation and loadout of the module.

The scope of the project included the transportation of an offshore process module weighing 1,800-tonne across 500m from the fabrication yard to the quay and then their loadout onto a barge.

AJHL engaged in the project from its bidding stage and continued providing support during the fabrication of the module, which enabled the meticulous planning of all operations, selection of equipment, and allocations of resources.

The biggest challenge identified initially was the monumental task of managing the tide timings.

The technical and logistical expertise of AJHL combined with the strength of the company's heavy equipment fleet enabled the mobilisation and assembly of all the equipment in line with the project schedule: 66 axle lines of SPMTs and 4 PPUs with full-fledged engineering plus supervision services were provided to the customer. 



# POWERING INDUSTRIAL GROWTH IN SINGAPORE

## SINGAPORE PARALLEL TRAIN (SPT) PROJECT



### Mobilisation of global resources supports a world-scale refinery and petrochemical expansion on Jurong Island

A US-based, multinational energy and chemicals producer operating a refining and petrochemical complex on Jurong Island in Singapore undertook a major expansion in 2006 to significantly scale and integrate its production facilities, unlocking greater investment efficiency and operational synergies across its downstream and chemical businesses in the Asia Pacific region.

The USD 4 billion expansion project represented one of the largest industrial investments on Jurong Island, which itself contributed approximately USD 25 billion annually to Singapore's economy. Upon completion, it would create one of the world's largest integrated refining and petrochemical complexes, equipped with a new steam cracker producing ethylene, multiple downstream units producing a range of ethylene and propylene derivatives, and an aromatics extraction unit producing benzene, all supported by a cogeneration plant. These new production units would be fully integrated with existing refining and chemical assets, including refurbished and expanded aromatics and oxo alcohol units.

The expansion would also boost the organization's ethylene production capacity in Singapore to nearly two million tonnes per year, contributing significantly to the nation's broader goal of achieving six million tonnes of ethylene production annually.

The EPC contractor tasked with delivering major elements of the expansion, including the construction of new process units and their integration into a live operating plant, selected AJHL to execute the heavy lifting and transportation of process modules over a two-year period.



The location and scope of the project presented several challenges, beginning with the highly congested working environment on Jurong Island. To avoid disruptions to ongoing operations within the existing complex, all activities required precise planning and strict adherence to the client's safety standards. Personnel were required to complete week-long safety inductions, and all equipment and vehicles had to be approved before access to the site was granted.

Mobilising a largely overseas workforce and equipment added further complexity, as equipment registration, operator licensing, and employment visas had to be secured within tight timelines through close coordination with local authorities.

Delivering the process modules to the site required simultaneous coordination across multiple points, beginning with offloading and roll on/roll off operations at three jetties. Lifting and transport operations had to be executed concurrently across five locations within the complex, demanding precise resource allocation and complete documentation for each work front.

To overcome these challenges, AJHL implemented a highly coordinated execution strategy built around early planning, rigorous compliance, and disciplined resource management. This provided a clear understanding of the overall project scope, including the client's technical requirements, site constraints, operational risks, and overlapping contractor activities, enabling the team to align engineering strategy, equipment selection, manpower planning, and execution methodology well before mobilisation.

Close coordination with the EPC contractor and other stakeholders from the outset allowed potential interface issues to be identified and resolved during planning rather than during execution. As a result, project preparation became more structured and efficient, supporting smoother site operations and stronger alignment with the client's expectations.

A diverse fleet of heavy lifting and transportation equipment was deployed to meet load requirements ranging from 20 to 400 tonnes and module lengths of up to 70 metres. The equipment and their configurations were determined by lifting radius, ground-bearing pressure, site accessibility and space constraints of an active petrochemical environment.

Approximately 40 cranes were mobilised, including a 3,200-tonne Demag CC 8800 1 Twin and a 1,600-tonne Demag CC800-1 crawler cranes for the heaviest lifts, supported by a range of mid capacity crawler and mobile

cranes for modular installation and auxiliary lifting activities.

A combination of SMPTs with 104 axle lines and six PPU, hydraulic trailers with 104 axle lines with six heavy duty prime movers, along with low-bed and flat-bed trailers, provided the flexibility required to transport the process modules across varying site conditions and restricted access routes.

A fully integrated team of 100 personnel was mobilised for managing engineering, operations, safety, and logistics across multiple simultaneous work fronts.

The reliability of the equipment fleet and the professionalism of the workforce enabled the team to meet demanding project milestones without disrupting ongoing plant operations. One of the project's most significant achievements was the completion of AJHL's entire scope with zero lost time injury, a result driven by disciplined engineering, rigorous risk assessment and an embedded safety culture.

The strength of this performance led the client to award two immediate follow up projects, underscoring their confidence in AJHL's technical competence, execution excellence and commitment to safety and quality.

The project stands as a major milestone for AJHL, demonstrating its ability to support large-scale, complex industrial developments with precision and reliability in highly regulated and demanding markets.

#### **WAREHOUSE SERVICES, STRENGTHENING OPERATIONS AND EXPANDING INTO SINGAPORE**

Beyond its heavy lift and transport responsibilities, AJHL was awarded a three-year contract to provide warehouse services for this project, an additional mandate that affirmed AJHL's role as a dependable partner. Throughout 2008 and 2009, AJHL mobilised its project management team, fleet of heavy transport and lifting equipment and skilled workforce to Singapore, establishing a sustained presence to support the project's evolving operational needs.

The scale of the project, combined with the confidence placed in AJHL to manage multiple scopes of work, created a strategic opportunity for geographical expansion, enabling the company to formalise its operations in Singapore. In line with these major awards and AJHL's commitment to serving the Far East market, a regional office was established in Singapore to manage current and future projects across the region. 🇸🇬



# SEA-TO-SITE PRECISION UAE TO QATAR

## AJHL transports 168 tonne brine heaters from Fujairah to Doha

The major supplier of power and desalinated water in Qatar contracted AJHL to execute the marine and overland transportation of three 168 tonne brine heaters for a power and water plant at the Ras Abu Fontas industrial area in Doha.

The operation involved a complex multimodal logistics operation, moving the heaters from Fujairah in the UAE to Qatar using AJHL's landing craft, followed by overland transport using SPMTs.

The brine heaters were delivered safely and on schedule, enabling the client to maintain progress on the plant expansion. The operation demonstrated AJHL's capability to integrate marine and overland heavy transport services for critical water infrastructure projects. 🇶🇦




# OVERSIZE EXPERTISE QATAR

## AJHL delivers massive LPG vessels for Qatar's oil and gas expansion project

A major EPC company serving Qatar's oil and gas and petrochemical industries contracted AJHL to execute the overland transportation of multiple over dimensional LPG vessels.

The operation required engineered transport planning, specialised modular trailer configurations, and precise coordination. The transport operation involved controlled movement along predefined routes and continuous communication between the project teams.

AJHL delivered all LPG vessels safely and on schedule, enabling the client to maintain progress on critical oil and gas construction milestones. The operation reinforced AJHL's capability to manage complex logistics for pressure vessels and LPG equipment and solidified its reputation as a trusted heavy transport partner for Qatar's energy sector. 



# PRECISION AT SEA SARAWAK - MALAYSIA

Offshore lifting expertise delivers flawless jacket installation in Malaysia within a critical 72-hour window

A leading international oil and gas company developing natural gas resources off the coast of Sarawak, Malaysia, required expert heavylift capabilities to install jackets for offshore platforms. AJHL was selected to transport and assemble a 1,200tonne pedestal crane on a jackup vessel, followed by the lifting, upending, and placement of the jackets onto the seabed.

The project involved a sequence of critical offshore lifts, beginning with the assembly of the primary crane using two 300tonne crawler cranes to lift and position its substructure, superstructure, components, counterweights, and outrigger mats. Because the crane boom would clash with the jackup vessel's leg if installed centrally, the lift required an offcentre configuration supported by detailed engineering. The vessel itself was reinforced with underdeck strengthening and temporary deck supports to withstand dynamic loads during the heavylift operation.

Two jackets weighing 360 and 375 tonnes had to be lifted from a barge, upended, and placed onto the seabed with strict positional tolerances while managing barge movement and changing sea conditions. All operations were constrained by a 72hour weather window, requiring meticulous planning and continuous monitoring.

AJHL's early involvement enabled comprehensive assessments, feasibility studies, resource planning, regulatory compliance, and risk management, which helped identify operational and environmental risks and informed detailed transport and lift methodologies, supported by robust safety and communication protocols. Acting as a singlesource operator, AJHL streamlined coordination, ensured procedural clarity, and aligned all stakeholders through daily communication and transparent reporting.





The selection of equipment was influenced by the offshore environment and the immense weights involved. A 1,200tonne Gottwald AK912 crane was selected as the primary crane for its capacity and ability to operate within the vessel's spatial constraints, while two 300tonne Demag CC1800 crawler cranes were deployed for the assembly phase. AJHL mobilised a team of offshore lifting specialists, including project managers, engineers, crane operators, riggers, supervisors, and HSE officers, all operating under strict safety protocols and daily briefings.

Safety was central to every phase of the operation. Hazards such as crane failure, jacket swing during upending, manriding operations, and adverse weather were systematically assessed. Control measures included colourcoded slings to prevent crossrigging, strict use of inertia reels for personnel at height, and defined sequences for tensioning orientation tuggers. Mandatory toolbox talks, a clear chain of command, and designated radio silence during critical lifts ensured full situational awareness.

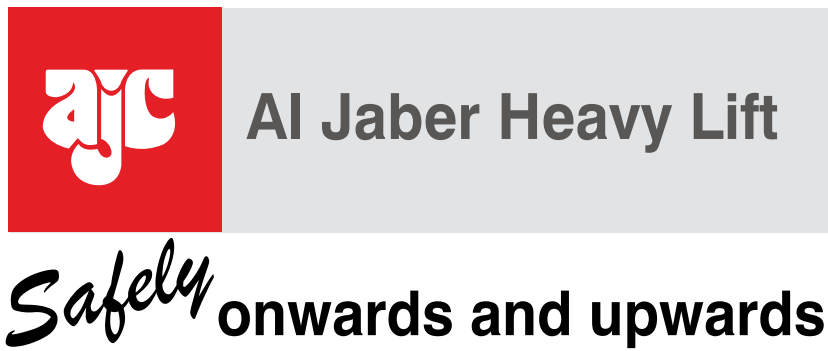
Given the highrisk marine environment, all procedures, including lift plans, seafastening cut plans, and weather criteria, required formal approval from the marine warranty surveyor. Detailed lift engineering and vessel modification studies were completed and approved, and strict weather windows were continuously monitored, with final goahead decisions made jointly by key personnel.

The meticulous planning, engineering, and collaborative framework established by AJHL and the project stakeholders enabled the execution of the complex offshore heavy lift operations on schedule with exceptional standards of operational, technical, and safety performance.

Highlights included the successful offcentre assembly and operation of the 1,200tonne primary crane within spatial constraints, seamless synchronization between crane operations and barge movement during critical liftoff and setdown phases, and precise upending and positioning of the jackets within strict seabed tolerances.

The project demonstrated AJHL's unique capability to deliver integrated heavy lift solutions in challenging offshore environments and strengthened its reputation as a trusted partner for global energy operators. 🇸🇦





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