



Keeping the oil and gas industry Moving

www.cakasamaintenance.com

QUALITY

“I am trying to show
the world
that we are all
human beings
and
that colour is not
important.
What is important
is the
QUALITY OF OUR WORK”



TO BE A
QUALITY
SOLUTION
C

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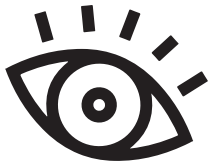
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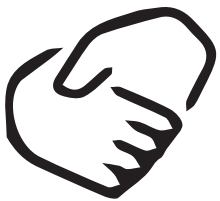
OUR VISION.

To be a world class quality maintenance solutions company of choice.



OUR MISSION.

To passionately provide quality maintenance solutions that exceeds customer expectation.



OUR CORE VALUES.

- Team Work
- Quality Mindset
- Motivation
- Professionalism
- Integrity
- Customer Oriented





WHO WE ARE!

Cakasa Maintenance Services Limited (CMSL) stands as a premier provider of specialized engineering and maintenance solutions within the oil and gas industry. With a strong focus on maintaining the operational integrity of offshore platforms and oilfield facilities, CMSL has built a reputation for delivering high-quality services that are tailored to meet the specific needs of each client.

Our commitment to innovation, safety, and precision is at the core of everything we do. We continuously strive to enhance our capabilities, ensuring that we not only meet but exceed industry standards. Our comprehensive range of services covers multiple domains, from the meticulous maintenance of critical infrastructure to the application of advanced engineering techniques.



Why Choose CMSL?

- **Expertise and Experience:** Decades of industry knowledge and skills.
- **Tailored Solutions:** Customized services for optimal performance and cost-efficiency.
- **Innovative Techniques:** Cutting-edge solutions for enhanced productivity and safety.
- **Dedicated Support:** Exceptional service and support from highly trained professionals.

Discover how our expertise can elevate your operations. At CMSL, we don't just maintain facilities; we build long-lasting relationships based on trust and performance.

OUR MANAGEMENT.

At Cakasa, our management team exemplifies visionary leadership, strategic expertise, and unwavering dedication. Guided by integrity, innovation, and excellence, our leaders foster a culture of collaboration and continuous improvement. With decades of combined experience, they bring a wealth of knowledge and diverse skills, ensuring well-informed, strategic decisions.

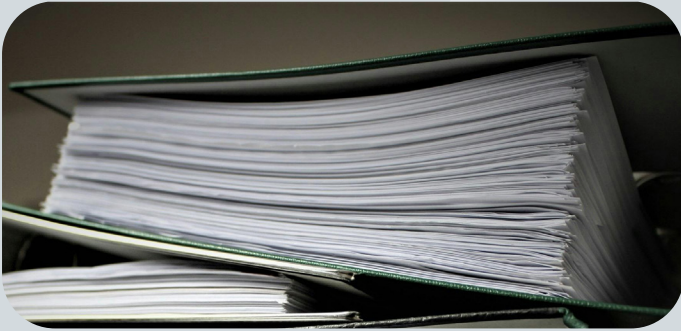
Our leaders navigate industry complexities, anticipate future trends, and drive the company toward new frontiers with a bold approach. Their innovative strategies position Cakasa as a trailblazer, setting benchmarks for quality and performance.

The management team is committed to the professional growth of every employee, nurturing talent and providing a supportive environment for creativity and innovation. This empowerment ensures our team delivers exceptional results for clients.

Our leaders prioritize ethical practices and social responsibility, focusing on sustainability and benefiting clients, the community, and the environment. This holistic approach ensures Cakasa remains a trusted industry name.

Ultimately, Cakasa's management team drives the company forward, transforming challenges into opportunities and achieving ambitious goals. They inspire and empower every team member to reach their full potential and contribute to our collective success. Open communication and transparency with clients, employees, and stakeholders build trust and foster long-term relationships, aligning everyone with the company's vision and goals.

CORPORATE POLICIES.



Our primary objective in any project is to operate safely and economically while maintaining positive relationships with local communities. We prioritize compliance with all safety and welfare regulations and strive to build mutually beneficial relationships with our host communities. CMSL is also deeply concerned about the environmental impact of our work and takes proactive measures to prevent accidents and ensure harmonious community relations.

Community Affairs, Safety, Health, Environment & Security (CASHES) Policy.

Our primary goal is to maintain cordial relationships with host communities and prevent accidents that could cause injuries, property damage, fatalities, or environmental harm. Our Community Affairs, Safety, Health, Environment, and Security (CASHES) program is designed to achieve the following:

- Community Affairs
- Safety
- Health
- Environmental
- Security

Health, Safety, Security & Environment - HSSE.

Ensuring the health, safety and security of our employees, our customers and the public and protecting the environment are fundamental priorities for CMSL. We uphold these values in the same way that we ensure the quality of our work implementing rigorous controls through every phase of our projects.

Training is the key to preventing accidents and incidents. Our employees receive extensive training on how to perform their jobs safely, properly and in compliance with environmental regulations.

Total Quality Management (TQM).

With Total quality management integration we have upgrade our service and plans to better suit the need of our customers.



"Safety is the responsibility of every employee at Cakasa, and zero incidents is our foremost goal. In all our projects our trained personnel work to ensure the safety of themselves, their co-workers, the customer and the public"



Our Services.

At Cakasa Maintenance Services Limited (CMSL), we offer a diverse range of specialized services tailored to meet the distinct needs of our clients. Our expertise spans across various sectors, ensuring comprehensive support for your operational requirements.



- **Engineering**

- **Construction**



- **Procurement**



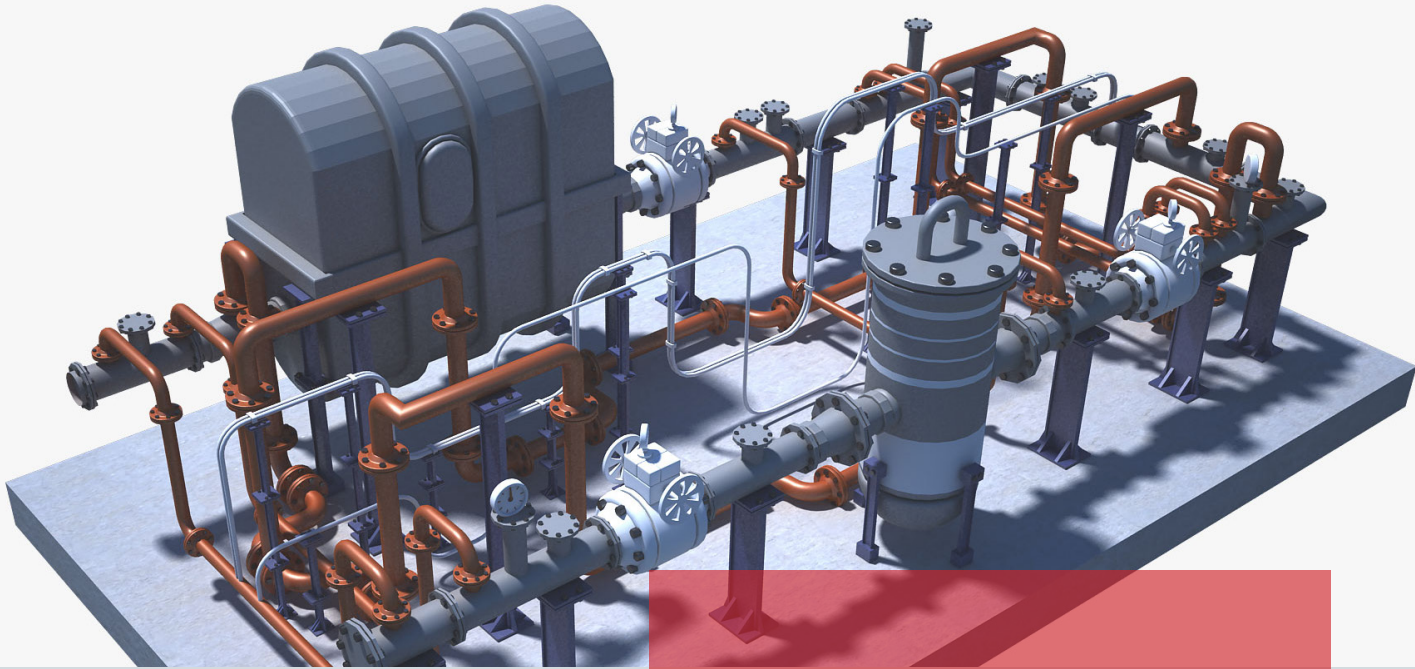
- **Maintenance**



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FLOW MEASUREMENT.

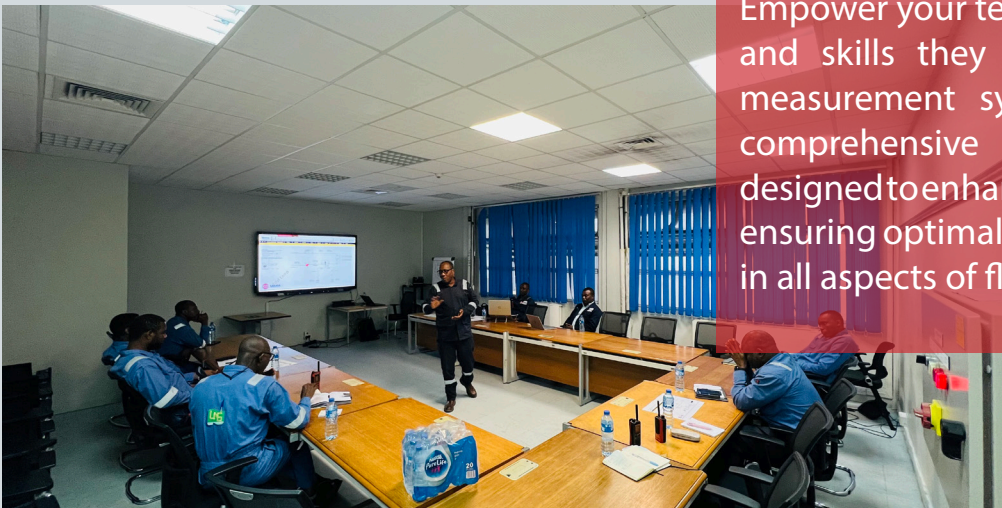


Custom system design of metering Skids.

Our expertise in designing custom metering skids ensures that your flow measurement systems are tailored to meet the specific requirements of your operations. We integrate advanced technology and engineering principles to deliver reliable and accurate metering solutions that optimize performance and compliance.

Operator Training.

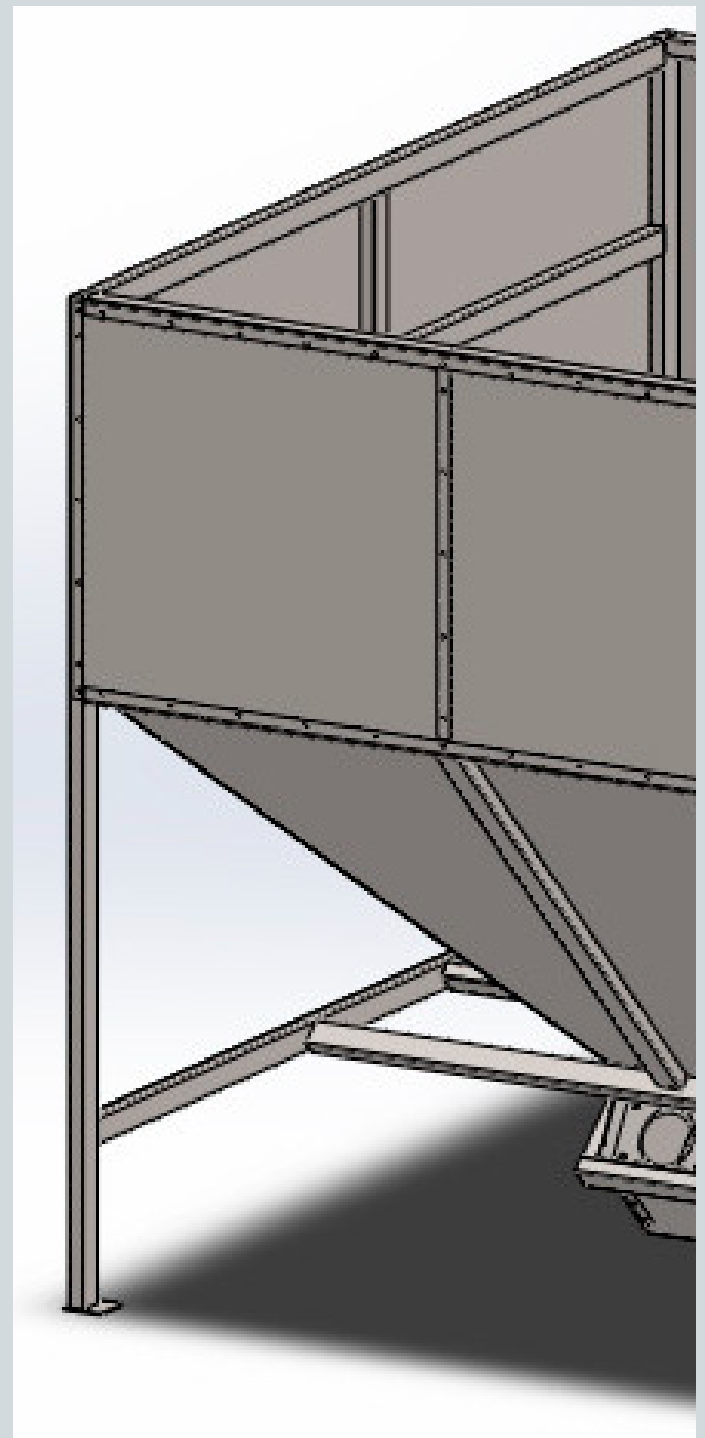
Empower your team with the knowledge and skills they need to operate flow measurement systems effectively. Our comprehensive training programs are designed to enhance operator proficiency, ensuring optimal performance and safety in all aspects of flow measurement.





Designing and Constructing Specialized Equipment.

Our specialized equipment for loading, unloading, and transporting catalysts is designed to meet the highest standards of safety and efficiency. From custom tools to advanced handling systems, we provide solutions that enhance the performance and reliability of your catalyst operations.



CATALYST HANDLING.

Developing scaffolding and access platforms.

Safety and efficiency are paramount in catalyst handling operations. We develop scaffolding and access platforms that facilitate safe and effective access to reactors and confined spaces, ensuring that your team can perform their tasks with confidence and precision.

BROWNFIELD



3D Modelling and Simulation.

Transform your brownfield projects with our advanced 3D modeling and simulation services. We provide detailed visualizations and simulations that allow you to plan and execute modifications with precision, minimizing disruptions and maximizing efficiency.

Project Management.

Our project management services ensure that your brownfield modifications are executed seamlessly. From planning to execution, we manage every aspect of your project, ensuring that timelines, budgets, and quality standards are met.



VALVES



Custom Valves Solutions.

We offer custom valve solutions that are tailored to meet the specific needs of your operations. Our expertise in valve design and engineering ensures that you receive solutions that enhance performance and reliability.



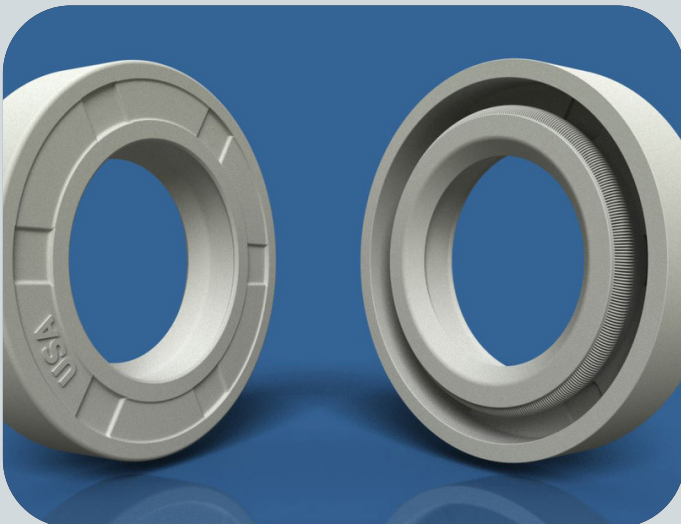
Valves Installation.

Ensure the proper installation of your valves with our professional installation services. We provide comprehensive support to ensure that your valves are installed correctly and function as intended from the outset.



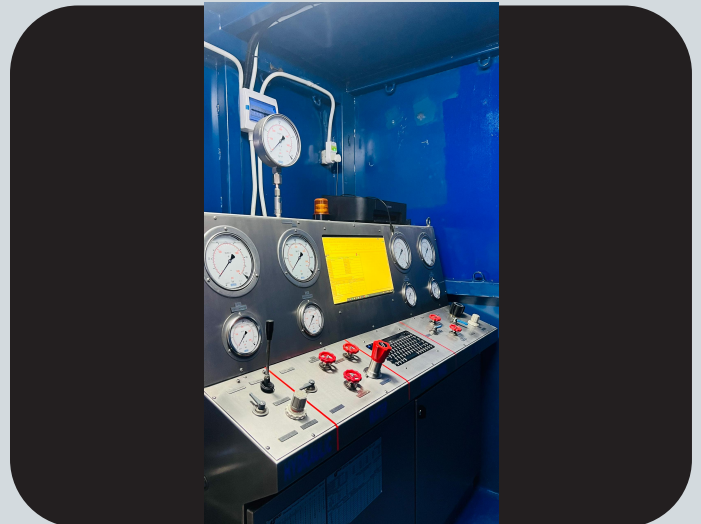
Sealing Solutions.

Our sealing solutions are designed to provide optimal sealing performance for a wide range of valve applications. We use advanced materials and technologies to deliver solutions that enhance the longevity and efficiency of your valves.



Valves Overhaul.

Extend the life and performance of your valves with our overhaul services. We offer complete refurbishment and maintenance services that restore your valves to optimal condition, ensuring continued reliability and efficiency.



PROCUREMENT.
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Selection of Equipment.

Our procurement services include expert advice on the selection of equipment, ensuring that you choose the best flow meters based on accuracy, flow conditions, and fluid type. We help you make informed decisions that enhance the performance and efficiency of your operations.



Logistics Coordination.

Streamline your supply chain with our logistics coordination services. We manage the transportation and delivery of your equipment, ensuring timely and efficient logistics solutions that meet your operational needs.



Supplier Management.

Our supplier management services ensure that you receive high-quality equipment and materials from reliable suppliers. We handle all aspects of supplier relations, from negotiation to quality assurance, ensuring that your procurement processes are smooth and efficient.

CONSTRUCTION
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CONSTRUCTION



INFRASTRUCTURE AND CIVIL WORKS.

At Cakasa, we don't just construct infrastructure; we build the backbone of your operations. Our expertise spans a wide range of civil construction works, tailored specifically for the oil and gas industry.

Foundation Works:

We design and construct foundations that are as resilient as they are reliable, ensuring the stability and longevity of your heavy industrial equipment and structures. With a proven track record in managing large scale projects, we combine quality and compliance to exceed your expectations.



Pipeline Construction:

Our comprehensive pipeline services, from laying and welding to rigorous testing, ensure the safe and efficient transport of oil and gas. Utilizing the latest construction technologies, we deliver pipelines that are built to last.



Plant Construction:

Turnkey solutions are our specialty. From site preparation to structural work and system installation, we provide end-to-end construction services for oil and gas processing plants, ensuring seamless integration with existing infrastructure.



SCAFFOLDING.

Safety and accessibility are the cornerstones of our scaffolding services. Whether it's for maintenance, inspection, or construction activities, our solutions are designed with your needs in mind.

Scaffold Design:

Our customized scaffold designs meet the specific needs of each project, ensuring safety and accessibility. Rigorous safety protocols are embedded in every step, providing peace of mind for your workforce.



Safety Inspections:

Regular safety inspections and maintenance keep our scaffolding structures compliant with the highest safety standards. Our versatile solutions cater to a variety of structures, including offshore platforms, refineries, and processing plants.



Erection and Dismantling:

Efficiency is key. Our professional team ensures the rapid and safe erection and dismantling of scaffolding structures, minimizing downtime and maximizing productivity.





MECHANICAL SUPPORT.

Our mechanical support services are the lifeblood of your operations, ensuring everything runs smoothly and efficiently.

Equipment Maintenance:

Preventative maintenance is our mantra. Regular checks and repairs by our highly trained technicians keep your equipment in optimal condition, preventing unexpected breakdowns and extending operational life.



Installation Services:

Our expert installation services ensure that your mechanical systems and components perform reliably from day one. We emphasize precision and efficiency in every installation.



Technical Support:

On-site technical support and troubleshooting are just a call away. We provide comprehensive mechanical support, addressing issues promptly to keep your operations on track.

MAINTENANCE
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MAINTENANCE



FLOW MEASUREMENT.



Meter and instrument Calibration

Calibration and dimensional testing (inspection) from CMSL - ensuring that precision instruments are regularly and accurately calibrated. Inaccurate measurement leaves oil and gas companies exposed to the risk of large financial losses whether at the exploration, production or distribution stage. With calibration of measurement instrumentation services from CMSL, you can be sure of the highest degree of measurement accuracy, reducing measurement uncertainties. Meter calibration enables you to avoid errors and mis-measurements. From production facilities, both on and offshore, through to distribution pipeline systems, storage facilities, tankers and oil refineries, and from terminals through to inland distribution systems, dynamic measurement systems instrumentation is crucial to achieving the highest practicable dynamic measurement accuracy. Working with your facilities and management personnel, CMSL experts can provide calibration services, which meets exacting standards. We assist you with certifying meter accuracy and the



Lease Automatic Custody Transfer (LACT) Unit Operations.

At CMSL, we pride ourselves on delivering top-tier operations and maintenance services for Lease Automatic Custody Transfer (LACT) units. Our expert team ensures that your custody transfer processes are both accurate and secure, safeguarding your operations against discrepancies and compliance issues. With a focus on reliability and efficiency, we utilize the latest technologies and best practices to provide seamless and precise custody transfers. Trust CMSL to enhance the integrity of your custody transfer operations, reducing risks and enhancing operational trust.



Flow Control Valve Maintenance & Calibration.

Optimizing the performance of your flow control systems is crucial for operational success. CMSL offers specialized maintenance and calibration services for flow control valves, designed to enhance system efficiency and performance. Our expert technicians meticulously maintain and calibrate your valves, ensuring they operate at peak performance. This precision ensures accurate flow regulation, reduces downtime, and extends the lifespan of your equipment. Experience the CMSL difference with our commitment to maintaining the highest standards of valve performance and



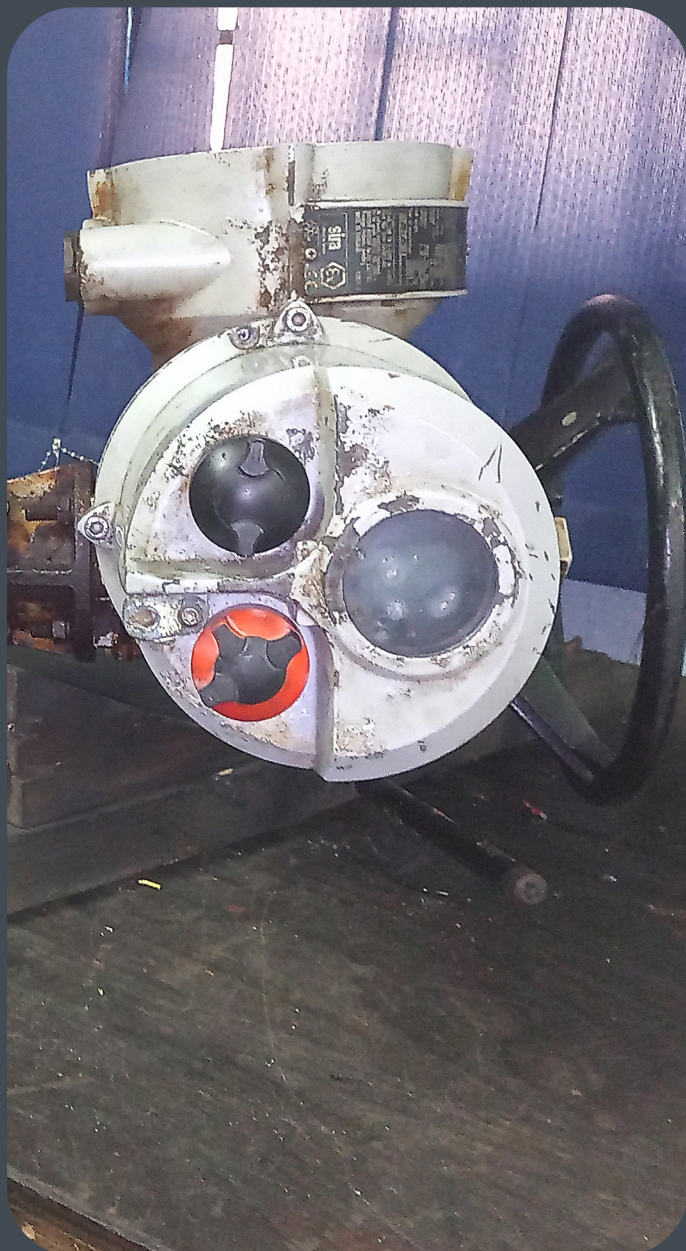
Flow Meters, Proverloops & Instrument Calibration Services.

In the realm of precise measurements, accuracy is crucial. CMSL specializes in comprehensive instrument calibration services, including flow meters and prover loops, to ensure peak performance. Our meticulous and rigorous calibration process adheres to, and often exceeds, industry standards, guaranteeing that your instruments provide the highest levels of accuracy and reliability. Whether you operate in manufacturing, oil and gas, or any other precision-dependent industry, CMSL ensures your flow meters, prover loops, and other instruments are calibrated for optimal performance. With our expert calibration services, you can achieve unmatched accuracy and confidence in your operations.



Valve Actuator / Motor Operated Valves Servicing & Maintenance.

The heart of efficient automation lies in the seamless operation of valve actuators and motor-operated valves. CMSL's servicing and maintenance ensure these critical components function flawlessly. Our expert team specializes in maintaining and servicing these valves, reducing the risk of operational failures and prolonging the lifespan of your equipment. By choosing CMSL, you ensure your automation and control systems remain in top condition, providing consistent performance and reliability. We keep your operations running smoothly, minimizing downtime and maximizing productivity.

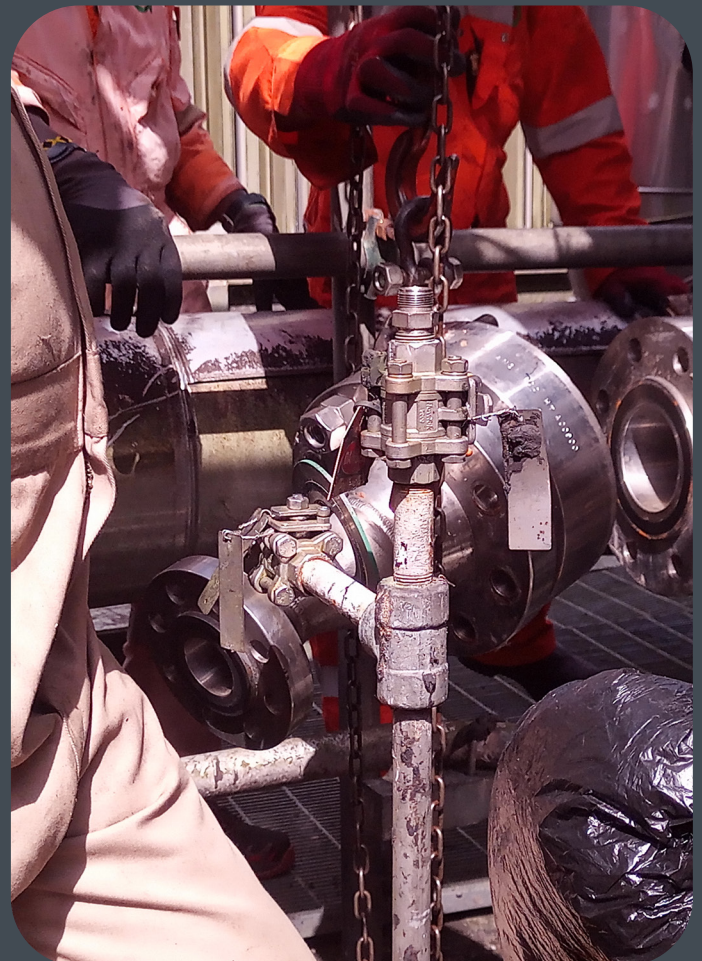


MECHANICAL SUPPORT.

CMSL can undertake complete Project Management, Logistics, Site Surveys Design, Estimation, Storage, Installation, Commissioning, Maintenance & Fabrication for mechanical support works.

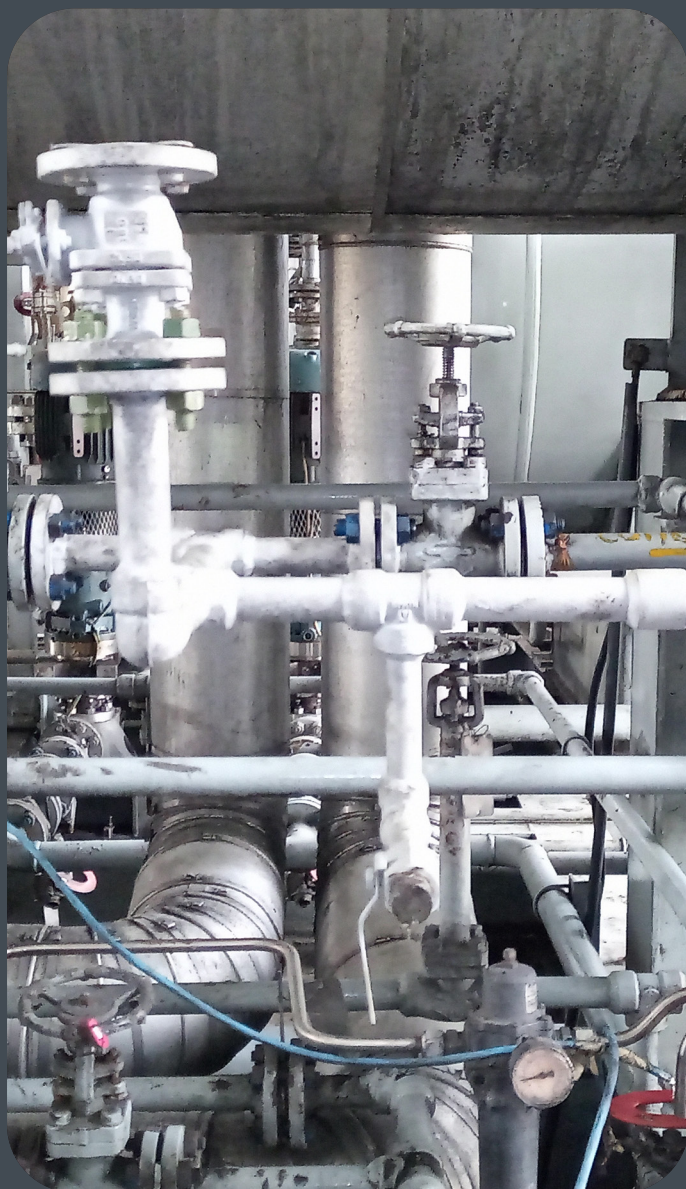
CMSL has many years experience in the provision of the following: -

- Fabrication and installation of mechanical fabrications (and any associated design) including supply of all necessary materials e.g. pipe, flanges, plate, bolts and valves, etc.
- Minor mechanical repairs / modifications
- Pipe work installation / modifications
- Instrumentation installation / spool pieces
- Sampling / pre-sampling pump chambers and installation
- Flow metering
- General mechanical installation steel fabrications, lifting equipment, pipe work, rotating machinery e.g. pumps, blowers, compressors, etc.



Gas Metering Validation.

Cakasa Maintenance Services Limited (CMSL) brings a wealth of expertise to gas metering validation, ensuring accuracy and compliance in gas measurement systems. Our team specializes in the precise calibration and validation of metering equipment, critical for maintaining the integrity of gas flow measurement. By utilizing advanced techniques and adhering to industry standards, CMSL guarantees reliable data for our clients, helping them optimize operations, ensure regulatory compliance, and reduce losses. Whether for upstream or downstream applications, our validation services are designed to meet the stringent demands of the energy sector.



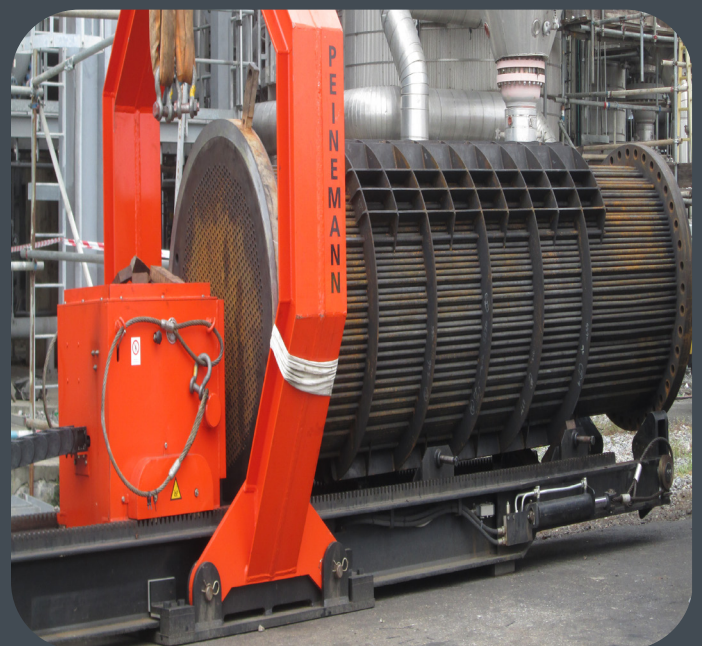
Heat Exchanger Maintenance.

CMSL is the global leader in repairing and restoring heat exchanger tubes and providing increased reliability to damaged or new equipment.

Our technicians ensure smooth operations. In case of an emergency, our skilled technicians and engineers will respond quickly to your needs. We don't let quality take the back seat. Our repair work- whether on-site or at our service center always complies with CMSL's high-quality standards. Yet heat exchange repairs are only part of our extensive service portfolio.

Heat Exchanger Maintenance Services that cmsl offer?

- Heat exchanger maintenance
- Tube Inspection
- Removal of fouling inside the heat exchanger (cleaning deposits)
- Corrosion protection for your heat exchanger
- Leakage test & Reconditioning your heat exchanger
- Heat exchanger troubleshooting• Quick response and support services, on-site and at our service centers



BROWNFIELD MODIFICATION.

CMSL is heavily involved in servicing, modifying and extending production life on existing (brownfield) facilities. We have carried out a wide variety of brownfield engineering activities, from small modifications to major facility upgrades to field tie-back projects. As part of any brownfield modification or upgrade project, we are able to carry out all of the required project functions such as project management, engineering, procurement, onshore fabrication, compliance, construction planning and management and execution of the actual work on the offshore facilities. Our aim is to deliver the project safely, on time, to budget and with minimal effect on production operations, extending the life or enhancing production of existing assets. .



Facility Upgrade.

Oil & gas production flowrates and characteristics vary during the life of a well or field due to changing reservoir parameters. In many cases these changes in flowrates and production characteristics cannot be accommodated by the original production system or infrastructure, which could limit a well or a field production potential.

CMSL production facility upgrades are designed to overcome changes in production characteristics from the reservoir, process pressure, fluid properties, waste or by-products not anticipated at initial start-up of the field. Where facilities have fallen into disrepair or are sub-optimal, modular facility upgrades are a cost effective alternative to shut down and reconfiguration of the main process facilities. The overall goal is to either improve production throughput or improve production facility efficiency.

When an appropriate solution is identified, the modular facility upgrade equipment is sourced from existing inventory where possible, configured offsite and requires minimal construction of site piping and ancillaries to complete onsite installation.



Critical Lifting

CMSL ensure that proper care and attention are given to your assets during turnaround maintenance or plant modifications. We employ our best expertise in lifting and handling all your critical equipment. We ensure all our lifting Equipment and accessories are certified by reputable 3rd party companies and we engage our certified lifting Engineer and Rigging team to develop specific lifting plan that will ensure safe lifting of your critical equipment. We also have different tonnage of cranes to cater for all your lifting needs.



Scaffolding Services.

At CMSL, we pride ourselves on providing dependable scaffolding systems that are manufactured using heavy-duty materials to meet the industry's high safety standards. We provide scaffolding erection services to a number of different industries including oil & gas, power plants, refineries and manufacturing.

Our scaffold services are flexible: we deliver, assemble, and dismantle the scaffolding for you.

Our scaffolding services can also be combined with any of our other services such as thermal insulation or refractory in order to minimize your contract management requirements.

We carry thousands of tons of cuplock scaffolding that can be constructed in all different styles including:

- Hanging & System scaffolds
- Internal & External boiler scaffolds
- Pre-engineered systems for large or complex projects

Security and safety are our focus. Our scaffolding is proven to be a safe, economical, and effective solution for many industrial applications.



Pipeline Construction & Maintenance.

Cakasa Maintenance Services Limited is a leading company that offers a range of technology-driven Pipeline services and innovative products. Cakasa Maintenance Services Limited is a safety-conscious company dedicated to client satisfaction.

Cakasa Maintenance Services Limited carries a wide range of services from leak detection to Pipe inspections, cleaning to lining, flow monitoring to source tracing. Our experience and expertise has earned us the reputation as the reliable partner for the management, renovation and repair of your assets.

The under listed are the Pipeline services we carry out.

- Pipeline construction.
- Leak repairs.
- Pipeline laying.
- Pipeline earthworks.
- Pipeline integrity management.
- Pipeline maintenance.
- Hydro testing;

Cakasa Maintenance Services Limited have also developed capacity in providing HOT TAPPING (wet tap), LINE PLUGGING (line stop) and COLD CUTTING in applications ranging from high pressure transmission pipelines .We provide specialized equipment with highly trained and skilled personnel to carry out our Pipelines services.



CATALYST CHANGE-OUT.

Catalyst handling is a very specialized job and CMSL is one of the few companies that have mastered this task. CMSL will like to assist you in:

- Loading and unloading of reactors.
- Reactor-specific services such as (soft) vacuum unloading, wet unloading, sock loading, dense I loading (Densicat®, Unidense®).
- Reactor revamps
- Mechanical work and maintenance
- Inspections
- Reactor cooling
- Catalyst transport
- Spent catalyst waste management



Life Support Services.

CMSL Sentry 4 inert entry life support breathing apparatus equipment is designed for high risk, irrespirable atmospheres typically inerted with nitrogen or where confined space entry atmospheres have a potential for rapid change becoming potentially dangerous to the life and health of the user. CMSL Life support technicians carry out the vital and responsible job of maintaining safe



PRD REPAIRS & RECERTIFICATION.



Pressure Equipment Certification.

Pressure equipment certification from CMSL - comply with the unique requirements of the standard you are operating in. Whether we're operating or repairing a pressure equipment, such as pressure vessels, tanks, boilers, pressurized systems and process installations, we ensure we comply with stringent local and national statutory regulations. Our pressure equipment certification services ensure we comply with the unique requirements of the country you are operating in.



Pressure Relief Device Repair & Testing Services.

Our trained and certified valve technicians use specialty repair tools and qualified test stands to inspect, repair and test your pressure relief devices to international standards and manufacturer specifications. Offering the best service and convenience, CMSL can service, repair and test your pressure relief devices in our facility, provide field service at your onshore or offshore work site, and can even test your devices in-situ (while your process is operating).

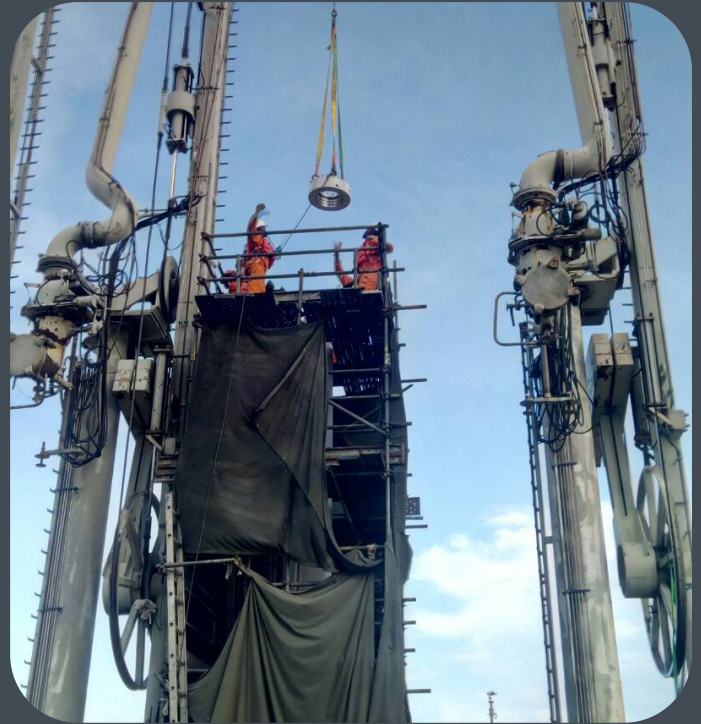


MARINE LOADING ARM.

Cakasa's Marine loading Arm experience covers both Petrochemical, LNG, and HPNG Marine loading arm system. We offer skilled advice and assistance throughout the life of the equipment from installation and commissioning to upgrades and commissioning to upgrades and major overhauls of marine loading arms.

Our core Services include:

- Preventive maintenance
- Inspection and repairs
- Operations and Maintenance training
- Managing Projects to deliver Necessary equipment and tools for major overhauls or installation of new arms.
- Providing Technical support to upgrade equipment based on the recent technology.



Maintenance & Upgrade Services.

Regular maintenance and timely upgrades are crucial for the longevity and reliability of marine loading arms and control systems. CMSL offers specialized maintenance services designed to keep your equipment in peak condition. Our proactive approach includes detailed inspections, preventative maintenance, and necessary upgrades, ensuring your systems operate efficiently.

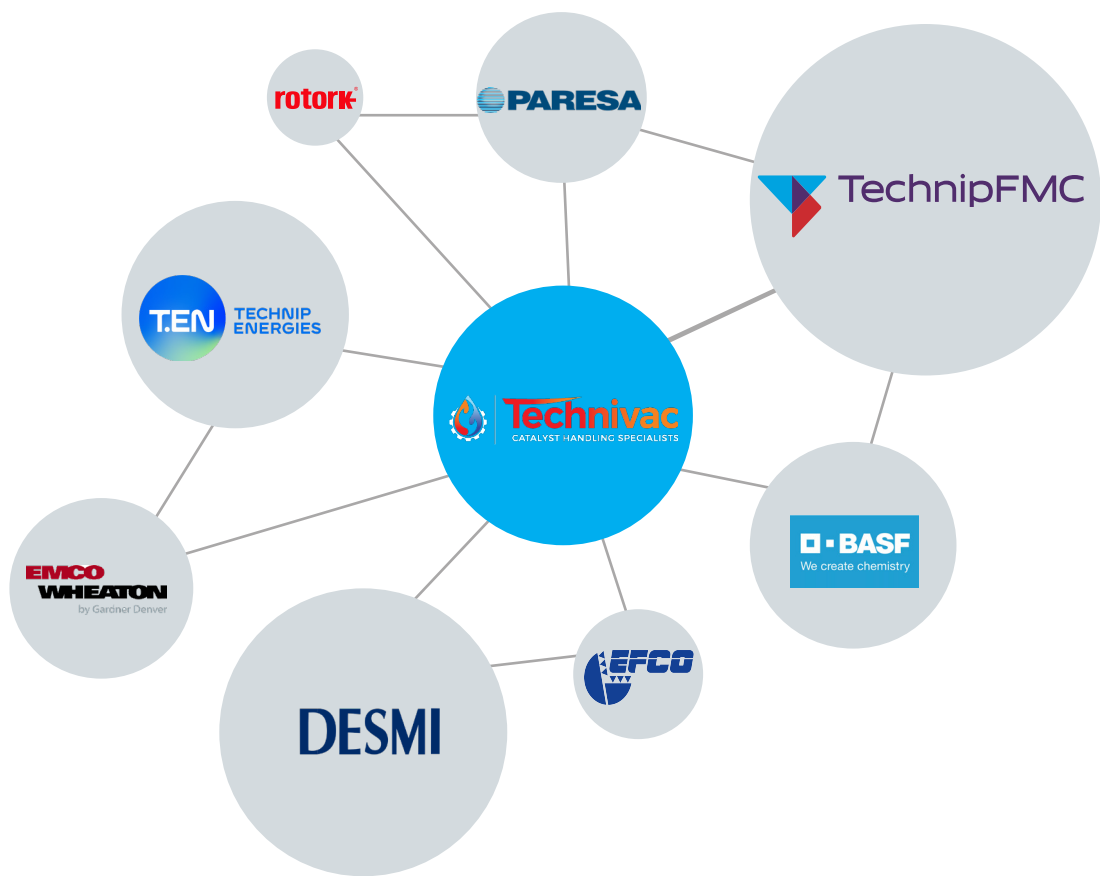


Installation & Commissioning Services.

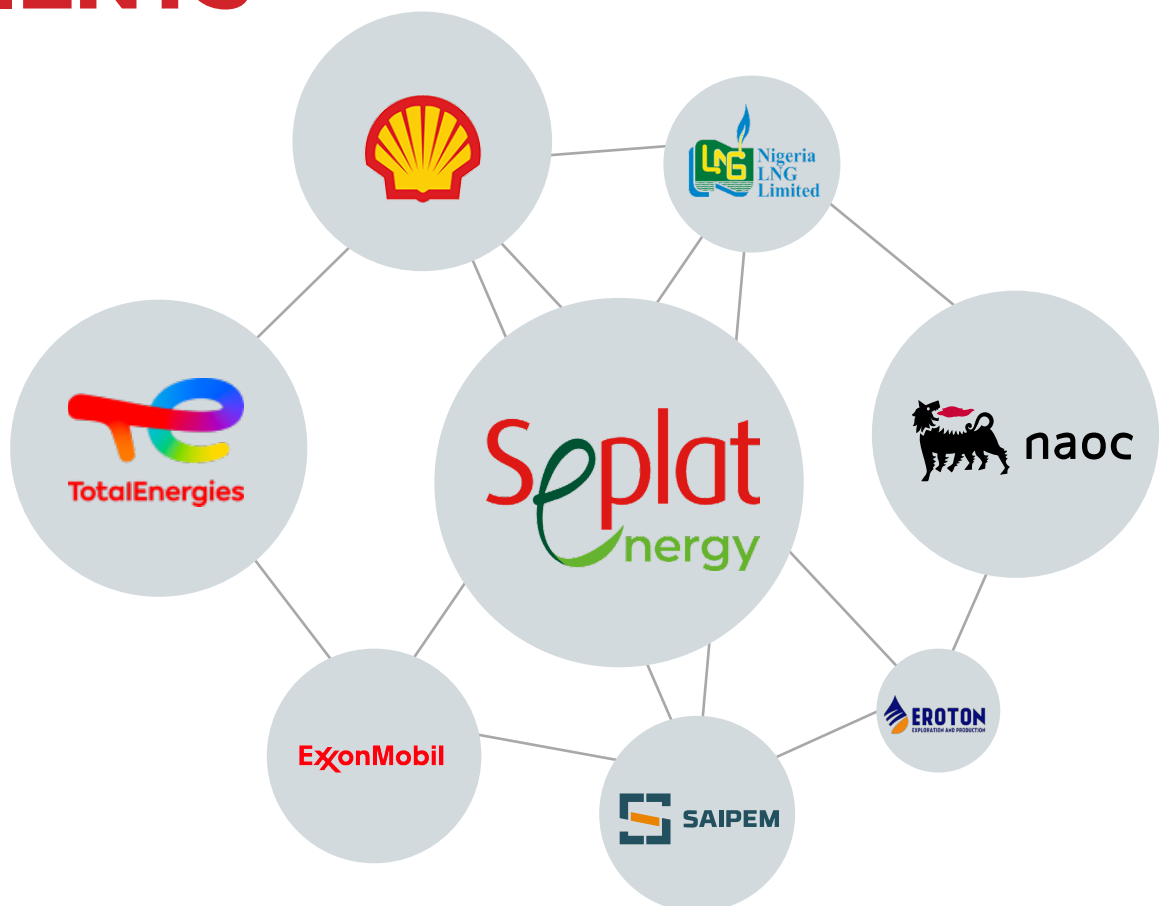
Our comprehensive installation and commissioning services cover every aspect of marine loading arms and control systems. We ensure that all components are expertly installed and commissioned for optimal performance, safety, and durability. From initial planning to final commissioning, CMSL provides seamless integration with your existing systems, minimizing downtime and ensuring a smooth transition.



TECHNICAL PARTNERS



CLIENTS





**CAKASA MAINTENANCE SERVICES
LIMITED
(EKET AREA OFFICE)**

Esa-Akpan Estate
Akwa Ibom State

eao@cakasamaintenance.com

jyoung@cakasamaintenance.com
08034016121

**CAKASA MAINTENANCE SERVICES
LIMITED
(HEAD OFFICE)**

#14 Emekuku Street, Dline
Port Harcourt,
Rivers State.

Info@cakasamaintenance.com
deking@cakasamaintenance.com
08038826374