



RC-1286152

KEMXX NIGERIA LIMITED



COMPANY BROCHURE

ENGINEERING | PROCUREMENT | CONSTRUCTION | INSTALLATION | COMMISSIONING

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INTRODUCTION

KEMXX NIGERIA LIMITED is a hundred percent indigenous Nigerian company established in 2015 with registration number RC-1286152 and having her office located at #14 Old Aba Road Rumukwurushi, Port Harcourt, Rivers State. Our Target is to render a wide range of services and expertise in Engineering, Procurement, Construction, Installations and Commisioning in the oil and gas industry.

We are a fast growing company duly certified to carry out EPCIC servives in the oil and gas industry

KEMXX NIGERIA LIMITED prides herself in quality services and record-time delivery in the oil and gas industry. This has been achieved by taking special care in bringing resources with appropriate materials and skills for required projects together to meet our client's goal.

These can be attested by the substantial growth we have experieced overtime and several jobs executed and delivered, regardless of job location and magnitude.





WHO WE ARE!



100% SATISFACTION GUARANTEE

We thrive on establishing long-term partnership with our customers, and the only way we can do so is to ensure they are 100% satisfied with our services



WE ARE EXPERTS

We only hire seasoned industry professionals with at least 5-10 years of experience. All our experts are certified and regularly trained to provide the most current solutions to our clients.



COMPREHENSIVE PROJECT MANAGEMENT

Our extensive experience managing all types of complex project means we will handle every detail and coordinate all vendors so you can rest assured that your project will be completed on time and budget.



WE ARE WELL-TRUSTED

Kemxx Nigeria Limited was established since 2015 but has quickly become a respected leader in the oil and gas industry. We have many long-term clients that put their trust in us year after year.



OUR EXPERIENCE

We are well experienced to manage and execute all corrosion related services.



PROACTIVE APPROACH

Our service philosophy is proactive, not reactive, so you can expect preventive service.





OUR VISION

We are poised to be the best and most sort-after Engineering, Procurement Construction, Installations and Commisioning firm both local and internationally by providing unrivaed quality services both onshore and offshore operations with topnotch quality and safety protection as paramount.



OUR MISSION STATEMENT

To synergize with the oil and gas sector in achieving unprecedented growth in project delivery/ execution in a healthy environment while providing speedy and reliable services by the use of technically advanced machinery and vast human capital.





Fabrication and Installation

Kemxx Nigeria limited is recognised for making Challenging fabrication and installations a reality, all the while being mindful of the architectural design and customers expectations of the final product. There is immense pride poured into each Kemxx project and, with the latest equipment, tools, technology and our well equip custom manufacturing facility, our highly experienced and knowledgeable work-site team reliably handles every details of the fabrication and installation process. In doing so, we control the accuracy, schedule and building systems optimum performance for years to come.

The construction industry is always evolving with advancements in technology, designers, fabricators and builders are developing new and innovative methods to improve cost, accuracy, quality and efficiency during pre-construction and construction. Kemxx Nigeria Limited is committed to delivering unparalleled custom solution on every project that we are involved in, and we dedicate our resources to advancing our capabilities within these latest technologies to ensure that we do so.



Pipeline Division



Kemxx Nigeria Limited has the technical competence to address all your pipeline challenges ranging from pipeline monitoring, leak detection, pipeline pigging, pipeline flushing, pipeline leak repairs etc.

All these services are done in-house by the help of our competent engineers and advance machineries. We are prompt in scheduled and project timely execution which made Kemxx always preferred when ever our client thinks of timely project execution.

Our Pipeline services

- ◆ Pipeline Insatallation
- ◆ Pipe rout of way survey
- ◆ Hydro testing
- ◆ Pipeline Welding
- ◆ Pipeline leak repairs
- ◆ Pipeline Integrity Survey
- ◆ Pipeline Corrosion Mapping
- ◆ Pipeline Cathodic Protection





Pipeline Pigging



Pigging

Pigging is an in-line inspection (ILI) technique in which devices referred to "pigs" are inserted into pipelines to perform cleaning and inspection activities. Pigging can be conducted on a variety of pipelines sizes without having to stop the flow of material through the line.

Intelligent ("Smart") Pigging

Intelligent Pigging is an inspection technique whereby an inspection probe, often referred to as a "smart" pig, is propelled through a pipeline while gathering important data, such as the presence and location of corrosion or other irregularities on the inner walls of the pipe.



What makes intelligent pigging different is that smart pigs are capable of performing advanced inspection activities as they travel along the pipe, in addition to just cleaning it. Smart pigs use nondestructive examination techniques such as ultrasonic testing and magnetic flux leakage testing to inspect for erosion corrosion, metal loss, pitting, weld anomalies, and hydrogen induced cracking, among others. They are also able to gather data on the pipeline's diameter, curvature, bends, and temperature.



Smart pigging provides a number of advantages over traditional forms of pipeline inspection. It allows pipelines to be cleaned and inspected without having to stop the flow of product. It also allows the a pipeline to be completely inspected without having to send inspectors down its entire length. Finally, it provides cleaning and inspection services at the same time, saving companies both time and money.

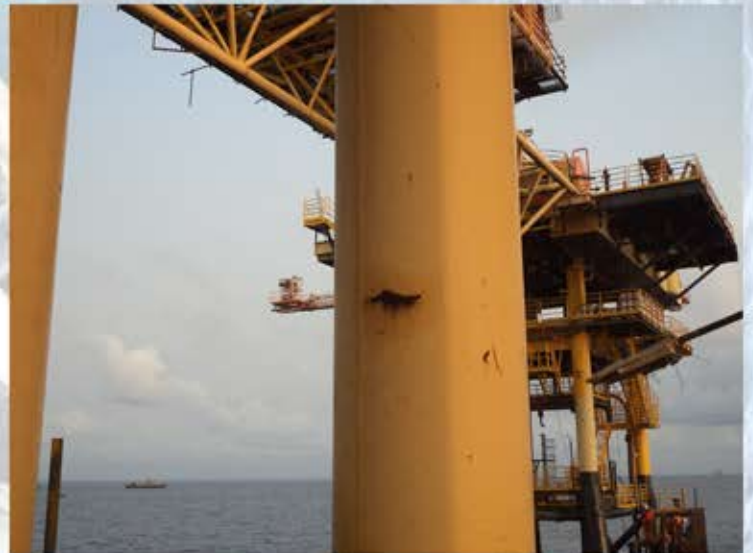
Wellhead Services



Wellheads, Valves and their actuators are key assets in the oil and gas industry. Ensuring they work properly is key to hitch-free operations.

Our services include routine Wellhead Maintenance as well as Wellhead Completions. Our expertise covers various Wellheads, Chokes & Valves including Cameron, Vecto Gray, FMC & Kvaerner. Comprehensive valve refurbishment are carried out by skilled engineers and technicians at our dedicated workshops in Port-Harcourt.

Kemxx supplies quality Wellhead systems to suit all casing size requirements - to full API specifications. We provide conventional stack-up wellhead systems, full bore and slim hole multi-bowl wellhead systems as well as systems for gas and oil well applications. These surface wellhead systems can be used onshore or offshore.



Kemxx has wealth of experience in completing surface wellhead installation projects using many variations of equipment from the major wellhead manufacturers. To ensure that your projects are delivered on time, on budget and safely, we provide trained and competent engineers who have both onshore and offshore experience. We pride ourselves in always going the extra mile and giving our clients uncommon commitment.



Field Joint Coating

The field joint is the bare steel area where two pipe sections meet and are welded together. Offshore pipelines and subsea production structures have thousands of field joints that need protection against corrosion and extreme weather. Quality field joint coating systems not only protect against corrosion prone areas and cold spots but also offer the following.

- ◆ Long-term anti-corrosion and thermal insulation performance
- ◆ Excellent bonding to the steel substrate
- ◆ Compatibility with the parent coating system applied on the pipe joints
- ◆ Easy application and insulation in any conditions and locations
- ◆ Short application and insulation time.



We are ideally suited and strategically positioned to provide boundless satisfaction in major areas of our services

Injection Molding Polypropylene (IMPP)



Kemxx Nigeria Limited have over the years of operation worked and developed on IMPP system to protect the onshore/offshore pipeline against corrosion and extreme temperatures to prevent cold spots, cracks and failure



Injection Molded Polyurethane (IMPU)

Kemxx specializes in multi-layer anti-corrosion systems, designed and application in a wide range of thicknesses and layers to meet insulation and subsea installation requirements. Linepipe coating is applied by side extrusion and is completed by KEMXX advanced PU injection molding technology for field joints.

This world-class, reliable technology provides integral protection and an excellent interface between the parent linepipe coating and the field joint infill, and is suitable for reeling, J-lay and S-lay installation.

Injection Molding

Field joint coating services involves the coating of the girth welds produce on board the pipe-laying vessels or at any offshore location. KEMXX carries out the engineering, design and fabrication of customised field joint coating equipment.



Flame Sprayed Polyethylene/Polypropylene (FSPE/FSPP)

In order to provide a totally compatible field joint coating system for three layer polypropylene or polyethylene-coated pipelines, KEMXX has refined the process of applying PP or PE powder through the flame spray technique.

Powder is carried in a stream of air and is fed into the center of an annular combustion flame where it is heated. A second outer Annular nozzle feeds a stream of air, around the powder stream which accelerates the spray particles towards the substrate and prevent burning of the powder.



The system uses existing equipment for the abrasive blasting/surface preparation and application of fusion bonded epoxy (FBE) plus chemical modified polypropylene or polyethylene (CMPP or CMPE) dual-powder base layers. The overall thickness required is then achieved by applying powder with a flame spray gun.

The flame spray field joint coating system provides a full 3-layer system, which is highly adjustable to field conditions where coating thickness of up to 5mm are required.

The flame spray system can also provide a useful service for tie-ins or serves as a back-up for a polypropylene or polyethylene fused field joint system as well as being a thoroughbred field joint coating system in itself.

Kemxx's Polypropylene flame spray system has an extensive track record of use on onshore and offshore pipelines, as well as in spool bases.



Fusion Bonded Epoxy

KEMXX has developed a range of service solutions for the efficient application of powder-applied coatings to the welded field joint area, supported by many years of experience.

Fusion bonded epoxy (FBE) powder coatings are applied to the welded joint area as a standalone coating system for FBE coated pipelines or as primer layer as part of multi-layer polyolefin-coated pipelines.

FBE application solutions and services to welded field joint include:

- ◆ Semi-automated powder application equipment and services,
- ◆ Fully-automated combined heat-and-coat, powder application equipment and services.



Key FBE features

- ◆ Controlled thickness
- ◆ Efficient application cycle time
- ◆ Reduce waist and hazards to the environment

KEMXX strives to meet the highest level of quality while maintaining the highest level of productivity in the firing line. Our specialist technicians are trained in all disciplines and the operation of KEMXX application equipment.

FBE APPLICATION

The application of FBE powder coatings involves pre-heating the substrate to the required temperature (typically 240 degree Celsius) by use of induction coils, followed by application of the powder coatings.

KEMXX offers powder coating application services.

Semi-Automated Powder Application Equipment and Services

KEMXX has many years of experience in the application of powder coatings, using our semi-automated equipment and processes in the firing line. Our Semi-automated powder application equipment is available for a wide range of pipeline diameters.

KEMXX's semi-automated powder coating equipment rotates around the field joint area in a cycle to achieve the desired dry film thickness (DFT). This unit is also used for the application of FBE and polyolefin adhesive as part of multi-layer systems (the FBE and polyolefin adhesive are interlock together)



Fully Automated Powder Application Equipment and Services

In response to the industry, for optimum cycle times and high repeatability, KEMXX developed the RAPTOR heat-and-coat machine.

RAPTOR units are fully automated, designed to simultaneously pre-heat and apply powder coatings to the field joint area in the high-production environments such as spool base operations, multi-jointing activities, offshore lay barges and onshore pipeline operations.

The units are fully contained, offering the highest levels of HSE protection to the environment and operator. RAPTOR units are also used for the application of FBE and polyolefin adhesive as part of multi-layer systems. (The FBE and polyolefin adhesive are interlocked together).

Heat Shrinkable Sleeve (HSS)

Corrosion Protection in the offshore and onshore applications with a varieties of products.

CORROSION PROTECTION HEAT-SHRINKABLE SLEEVES IN ANY LOCATION YOU REQUIRE.

For more than 5 years, KEMXX has been a leading specialist of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. We can provide our heat-shrinkable systems offshore on pipelaying vessels or onshore on spoolbases and in any other locations needed.



Thermally Sprayed Aluminium (TSA)

- ◆ Thermal Sprayed Aluminium (TSA) coatings are widely specified for the protection of steels from aqueous corrosion in the seawater environment eg. offshore structures, risers, pipe components and ship structures. The main service conditions for the application of TSA includes seawater immersion, tidal and splash zone and marine atmosphere.
- ◆ The successful use of TSA coatings in offshore applications such as tension leg elements and production risers in deep seawater have been reported in the literature.
- ◆ Toughness, low maintenance requirements, and long-term service life are among the desirable properties offered by TSA coatings for offshore applications.
- ◆ The basic properties of a TSA coatings for long-term service are its barrier characteristics combined with good adhesion and an ability to provide cathodic protection to exposed steel. It was reported that 200 micron thickness TSA coating would provide a service life in excess of 30 years in a splash zone environment if optimised.
- ◆ Key factors for optimisation include TSA alloy composition; surface preparation, choice and application of a sealer; service application; electrochemical/galvanic exposure conditions; coating application techniques and process parameters. The stringent requirement of the offshore industries (eg. oil and gas) to have a maintenance free coating system, with an expectation of up to 50 years life in severe environments, has increased interest in TSA coatings viable economic alternative to paint based systems.
- ◆ Although it has been demonstrated that TSA deposited by conventional spray systems can work well over extended periods, incidents of premature coating failure due to blistering and detachment have been recorded, indicating that coating quality and coating application procedure is extremely important.
- ◆ Porosity, oxide content and non-uniformity in the TSA coatings produced by the conventional systems are believed to result in reduced corrosion protection and shorter lifetime. Recent developments in spraying equipment via modification in nozzle and gun design and process parameters (such as higher gas flow rate and gas pressures) are believed to produce TSA coatings with improved properties.



Wet Abrasive Blast Cleaning

KEMXX is familiar with several variations of wet abrasive methods, however the two most commonly used ones are highlighted below;

Hydro-Blast process: Sand is mixed with water and propelled by water pressure.

Vapour-Blast process: The abrasive is suspended in a liquid projected at high velocity by a forceful flow of compressed air.



Benefiss of Wet Abrasive Blast Cleaning

- ◆ Extremely fine media can be used
- ◆ Media impregnation into substrate is not possible
- ◆ Deeply Cleans irregular surfaces
- ◆ Eliminates the need for hand-sanding
- ◆ Eliminate the need to use toxic chemical
- ◆ Reduce dust
- ◆ No heat warping with thin parts
- ◆ Final finish is appealing with a satin feel
- ◆ Provides an excellent surface for painting
- ◆ Holds tight tolerances

Well Head/Christmas Tree Corrosion Maintenance



KEMXX NIGERIA LIMITED has the capacity to design and apply protective coatings that will best suit client service environment. We consider the terrain, the temperature, the chemical and the factors that could speed up the rate of corrosion ranging from the conductor casing, conductor pipe, lower master valve, casing spool, well head and christmas tree. This has been achieved by taking special care in bringing resources with appropriate materials and skills for required projects together to meet our client's goal.

Onshore/Offshore Facility Corrosion Maintenance

KEMXX NIGERIA LIMITED is solely a corrosion control service company with a track record on various corrosion prevention and cathodic protection engineering and technical services





Composite Wrap For Pipeline Reinforcement

Composite repair systems using composite wrap remain a constant repair option for industries requiring repair and rehabilitation of piping systems. Various techniques and testing methods, which have the ability to handle different critical conditions onsite are being developed in order to meet the demands of the industry. Composite wrap materials are recognised as a reliable and effective means of repairing corrosion damage, mitigating corrosion concerns and keeping critical piping systems in production.



Benefit of Composite Repairs for pipe and tank leaks using composite wrap:

- ◆ Customised solution for through wall defects for pipes and tanks walls
- ◆ Compliant installed by trained and certified applicators
- ◆ Engineering calculation report and method of statement for each repairs
- ◆ ISO24817 and ASME PCC2 standards
- ◆ Provides excellent strength, bonding and chemical resistance
- ◆ Saves costs and time.

Benefits of Composite Repairs for Pipeline Reinforcement using Composite Wrap:

- ◆ Customised solution for through wall defects for pipes and tanks wall
- ◆ Compliant installed by trained and certified applicators
- ◆ Suitable for wall loss up to 80%
- ◆ Engineering Calculation report and method of statement for each repairs
- ◆ ISO24817 and ASME PCC2 standards
- ◆ Provides excellent strength, bonding and chemical resistance
- ◆ Saves costs and time.-



PIPELINE CORROSION INSPECTION DIVISION

Metal loss is a critical pipeline threat. The integrity of your pipeline plays a critical role in the overall success of your business. Anomalies such as corrosion and gouging can cause metal loss, significantly reducing pipe wall thickness. Against this background, measuring this key parameter and determining the safe operating pressure are of the utmost important.

KEMXX NIGERIA LIMITED offers high resolution pinhole and pitting metal loss inspection service and standard.

The high-resolution pinhole and pitting service reliably detects defects and size as small as 5mm (0.2in) diameter, which represents a two fold improvement in the minimum size threshold, from the previous entry level ultrasonic service of 10mm (0.4 in).

At the onset of each project, we identify your unique requirements and tailor our service accordingly. Moreover, you can be sure of especially high-standards of reliability, expertise and responsiveness. Our global engineering department has the skills and experience to efficiently manage complex and multi-diameter, deep-water and bi-directional inspections. For metal loss inspection, we have developed a comprehensive range of proven robots, incorporating ultrasonic technologies.

Ultra-High Pressure Hydroblasting and Cutting



Our highly customised and automated systems utilize water pressure up to 40,000 psi pressure for safe effective cleaning, surface preparation and cutting

Benefits of Ultra-High Pressure Hydroblasting

- ◆ The dynamics of high-speed, pulsating water from ultra-high pressure hydroblasting produce incredible benefits for industrial cleaning, surface preparation, and cutting applications. The energy generated by the UHP water jet exceeds the bonding energy of even the most adherent scales, coatings, or process contamination.

Reduce Your Downtime

- ◆ Specially designed equipment, automated tooling, and a vast number of different nozzle configurations increase the ways you benefit. UHP water blasting reduces downtime, and improves safety performance.
- ◆ You will get the ultimate in reduced downtime and improved safety and precision. We engineer a custom job design with experienced employees and specialty automated equipment.
- ◆ We also provide the responsiveness you need with minimized travel time. Our teams and equipment are highly mobile and available throughout our vast geographical service area





SOME OF OUR CLIENTS



OUR TECHNICAL PARTNERS





PICTURE GALLERY





PICTURE GALLERY





ACCREDITATION BODIES



An aerial photograph of an offshore oil platform in the ocean. The platform consists of several white cylindrical structures connected by a network of pipes and walkways. A prominent yellow band is visible on one of the main vertical structures. The water is a deep blue with some white foam or spray around the platform. The text 'PORT-HARCOURT' is overlaid in bold black letters, underlined with a red line.

PORT-HARCOURT

**#14 OLD ABA ROAD RUMUKWURUSHI,
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