



murban
ENGINEERING

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about us

With roots at the Kenyan coast, we have over 10 years' experience in NDT, Mechanical Engineering and Marine Services. We enjoy a presence in the larger East and Central African region. Our head office is located in Mombasa with our workshop at Mazeras, from where we offer our wide array of services.

Our operations are split into two divisions - Murban Inspection Services and Murban Eginering Services. We pick the best talents in the industry and have heavily invested in developing our staff's skills further through rigorous internal and external training in keeping up with industry trends.

Our NDT team consists of highly skilled engineers and technicians who are ANT - SNT TC 1A qualified in Ultrasonic Testing (UT), Manetic Particle Testing (MT), Radiography Testing (RT) and Penetrant Testing (PT). Our Engineering Services section carries out Steel Fabrication and Welding Engineering conforming to interaional standards - KS, ASME, API, BS/EN and EEMUA.

A Murban, safety is our top priority. We have put up measures to guarantee our staff's, clients', visitors' and stakeholders' safety and an accident-free environment when on-site and within ay of our premises.

With a combination of a culture of excellence, competent workforce, technological innovations and a safe working environment, we promise our clients qualiy service delivery.

our values

PASSION FOR INNOVATION

Our customer is at the centre of all innovation. We encourage innovation not only in products and services but also in processes, human resources, management and business models. We are constantly looking to renew ourselves through new opportunities and ways of going forward. We learn and get inspiration from each other. We encourage cross-functional team-work and act with speed and flexibility. We are always open to new ideas and are not afraid of taking risks. We learn from our failures and share our successes.

CUSTOMER OBSESSION

The wants, wishes and views of our customers guide our every action. We are curious about our customers and continually aim to learn more about them and their needs. We keep our promises. We capture insights about and anticipate our customers' future needs. We strive to create added value for our customers - in all aspects of our work, ultimately aiming to deliver the best customer experience.

DRIVE FOR RESULTS

We strive for a visible, measurable and balanced benefit from everything we do. We focus on the essential and aim at the simple, informal, lean and direct ways of doing things. We recognize and reward results that contribute to the greater good and the overall strategy.



Respect and diversity, ethics and integrity, safety and sustainability are important elements of our values. They are our foundation. But what sets Murban apart are our three core values.



our health, safety & enviromental policy

We are 100% compliant with the requirements of DOSHS and other international safety standards. Our need for providing a safe enviroment supersedes our need for revenue maximisation, hence our commitment to providing an injury and incident free work area.

Our **HSE Policy Focus** is on:

- 🔧 Preventing human injury and ensuring safety of all - at our work sites and our client's worksites. This we achieve by designing 'safe' work procedures and processes, providing protection and safety gear, adequate signage and lighting plus appropriate spacing in our facility layouts.
- 🧑 Preventing occupational illnesses, promoting and maintaining the physical and mental well-being of employees and clients.
- 🌱 Compliance through clean and tidy sites, regular servicing of our equipment to reduce environmental pollution and employing proper acceptable waste disposal methods.

Our **HSE Goals** are

- > ZERO work-related lost time owing to injuries and illnesses
- > ZERO recordable safety/health violations
- > ZERO safety related property damage
- > ZERO public injuries or illnesses

Our HSE policy document is compliant with the host countrys' legislation and the international industry standards, requirements and regulations.



Achieving our HSE goals is important to us. Accordingly, we have taken steps towards this by:

-  Regular inspection of our work areas to identify and mitigate any risks of accidents or incidents.
-  Constant audit and review of our work procedures and flows to ensure staff safety.
-  Provision of Safety and Protection equipment, First Aid kits and health facilities in all our sites.
-  Costant training of our staff on safety procedures, including safety drills and provision of safety passports to safety certified staff.
-  Setting up a HSE committee to oversea all HSE matters



our solutions

At Murban, we have structured our business to provide due solutions to our diverse client requirements. We have two divisions:

- 1. Murban Inspection*
- 2. Murban Engineering*

MURBAN INSPECTION SERVICES

The Inspection and NDT Division has the technical capability, backed by the right equipment to provide full range NDT solutions in accordance with client requirements and in compliance with local and international standards.

Storage Tank Inspections - API 653

We provide NDT services for above ground storage tanks, including 'full return to service' inspection and cleaning. The services, which are in compliance with American Petroleum Institute's 563 Standards, cover inspection, repair alteration and reconstruction.

Pipeline Inspections - API 570

Pipeline inspection is carried out as specified by API Standard 570, covering maintenance, inspection, alteration and repair on in-service metallic piping systems.

Pressure Vessel Inspection - API 510

We carry out pressure vessel inspections to verify their performance and check for any defects in accordance with API 510 standards. Our service covers inspection, maintenance, alterations and repairs.

Welding Inspection and Metallurgy - API RP 577 & ASME IX

We offer several welding engineering services including welding procedure development, qualification of welders, field repair procedures, assessment of technology, adherence to code requirements and examination of failed welds.

Third Party Inspection Services

These inspections are done for the purpose of guaranteeing that materials, products and facilities are manufactured according to the customer's requests, technical specifications and requirements imposed by the standards. They also aim at providing product control and certification through all the stages of manufacturing for the customer but as a third party, independent of the customer and the manufacturer.

Statutory Inspection and Certification Services

Murban has extensive experience in providing Statutory and Certification Services. We have inspectors in our hire who provide DOSHS statutory inspection as per the Occupational Health and Safety Standards Act (2017).

We apply the techniques below in our testing and inspection services:

Ultrasonic Testing

Using the latest ultrasonic technology, we can verify the thickness of a material and ascertain the sturdiness of a welded joint. Our technicians are ASNT LII qualified and Confined Space trained.

Leak Testing

We apply this check to see whether there is an unintended crack, hole or porosity in an enclosing wall or a joint of vessel holding fluids or gases. We achieve this by Vacuum Box testing service which we apply when checking for leakages on storage tank floors, roofs walls and joints.

Magnetic Crawler Inspection

With the use of ultrasonic crawler, we are able to provide imaging on remote, above the ground surfaces. The system is designed to travel vertically, horizontally and upside down on ferrous metal surfaces, a cost effective method of A and B scan imaging. This inspection is ideal for storage tanks, vessels and off-shore installations.

Laser Testing

We use laser technology to measure tank settlement, tilting and dimensional deflections. We thereafter provide a full report to client with a recommended course of action.

Radiographic Testing

We apply conventional, digital and computerized radiography to test the density and thickness of storage tank pipeline or vessel material. We specifically use X-Ray and Gamma Ray in our testing. It is key to note that our technicians abide by safety standards and are well experienced in this specialised task.

Magnetic Flux Leakage - Tank Tank Inspection

We are privileged to be the first locally owned company in East Africa to obtain the latest Magnetic Flux Leakage inspection equipment. This testing method is commonly used in testing for corrosion and pitting in steel structures. We apply the test in integrity testing of pipelines and storage tanks.

Magnetic Particle Testing

This NDT technique detects and surface and slightly subsurface flaws, cracks and discontinuities in ferromagnetic materials. Our application of the more sensitive wet fluorescent magnetic particle testing gives us precise results as to the nature of the defects.



Visual inspection

Our technicians perform this task with or without optical aids to identify surface-breaking defects. For inspection of restricted areas, we use aids such as low power magnifiers, microscopes and fibre optic devices. These are used with television camera systems.

Positive Material Identification

Using our portable X-Ray fluorescent analyzer, we examine metallic alloys to determine their composition by reading the percentage quantities of their constituent elements. We apply this method to inspect welds and weld overlays, valve and valve components, pipes, fittings, machine parts, castings and forgings.

Dry Penetrant Testing

This is a widely applied low cost NDT technique used to detect surface breaking defects in non-porous materials such as plastics, ceramics and metals. We use this to detect forging, casting and welding defects such as hairline cracks, surface porosity, leaks in new products and fatigue cracks.

Hydraulic Pressure Testing







We are well equipped to perform hydraulic pressure testing on vessels such as pipes, tubings, coils and oil or water hoses.

MURBAN ENGINEERING SERVICES

Our Mechanical Engineering division is majorly involved with ASME compliant steel fabrication and welding both at our workshop and on client sites. With our corporate culture of quality, we have engaged a team of well specialized technicians to carry out fabrication operations.

We have invested in the latest cutting-edge equipment to ensure we deliver desired high quality final jobs.

Our expertise in Welding and Steel fabrication enable us to provide the services below:

-  Plant piping to ASME B31.3 and power piping to ASME B31.1 standards.
-  Structural steel fabrication and erection
-  Construction of cross-country pipelines in accordance with ASME B31.4/API 1104 standards.
-  Construction of vertical storage tanks to API 650 standards.
-  Fabrication of steel vessels
-  Equipment hire



our resources

To deliver on our promise of quality and reliability to our clients, we have invested in the best equipment to produce accurate and timely results. Additionally, we have a fully equipped laboratory to carry out extensive tests as well as a workshop. Our computerized systems are also instrumental in delivering real-time and precise outcomes.

OUR EQUIPMENT

MECHANICAL ENGINEERING	NDT/INSPECTION
Welding Machines	TSI Gamma Ray Source
Plasma Cutting Machines	MPI Yoke
Angle Grinder	Silverwing MFL Scanner
Grit Blasting Machine	Tank Magnetic Crawler
Compressor	Olympus UT Flaw Detector
Lorry Crane	UT Thickness Gauge
	Spectra Precision Laser

Our team is composed of highly trained, competent and motivated individuals with professional engineering qualifications (IEK), ASME and API certifications as well as in-depth experience in the industry backed by exposure in the oil, gas and marine sectors.

The team is constantly striving to keep up with industry trends by upgrading their skill sets through our e-platform and obtaining further requisite industry certifications.





our clients



We are proud to be associated with the leading names in the sector we operate in and are ever happy to continue providing value-adding solutions



affiliations





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