

Providing Best Services in the Industry



Contrade Ltd

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INTRODUCTION

Contrade Limited is a 100% Ghanaian company registered in Accra under the Company Code 1963(Act 179) with registration number CA-27,564 and is certified to commence business by the registrar general department of Ghana.

Contrade Limited is an indigenous Oil and Gas servicing Company Incorporated under the laws of Ghana utilizing Certified, Qualified, Experienced personnel and providing Quality Services in the Industry.

Contrade Limited is committed to customer satisfaction, periodic review, innovative technology and application of appropriate standard while meeting statutory and regulatory requirements.

Our strength lies within our in-house team of Professional Engineers and Solid Management team who are fully conversant with the technical and operational skills required in today's Oil and Gas, Civil, Mechanical and Electrical Environment.



Providing Best Services in the Industry

VALUES

- Ensure consistency and quality products through value-added engineering, dedicated work force and quality control.
- Committed to our customers with the undertaking of both the local and regional projects.
- With staff strength of over 20 our quality benchmark is to deliver to our customers on time and meeting their specifications.
- As a company we endeavour to be the leading contractor in Ghana oil and gas industry by providing quality, quick and reliable services. This we achieve through the dedication of our highly qualified, innovative and well motivated team, each seeking daily improvement with timely delivery of total solution to our valued clients.

MISSION

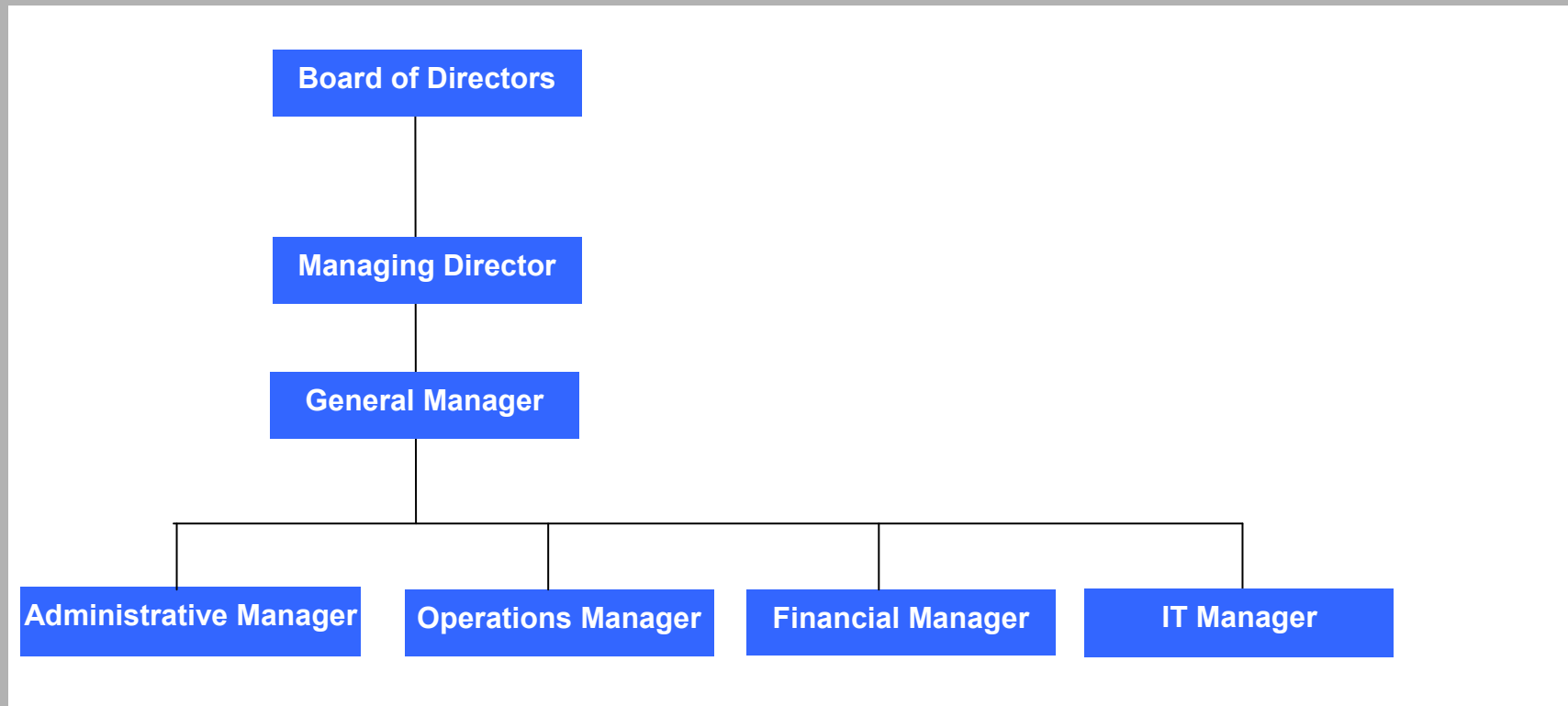
To Analyze, Monitor and Improve our customers present and future needs for high **Quality** Services and Products.

OBJECTIVES

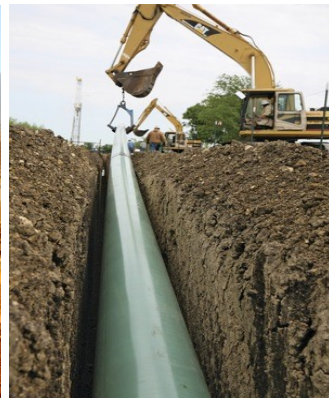
- To provide a continuous support and services in the most ideal working environment for our clients, meeting their requirements in delivery time and quality of the products using the safest approach.



Providing Best Services in the Industry



Main line Business:



- * Operations Assurance & Consultancy
- * Operations Documentation
- * Operations Management and Execution
- * Competence Assurance
- * Simulator Training
- * Safety & Emergency Response Training
- * Maintenance & Inspection Engineering
- * Process Technology
- * Process Safety & Risk Assessment
- * Personnel Assistance
- * Project Services
- * Integrated Services
- * Supply of PPEs
- * Well Construction and Engineering
- * Pipeline Pigging
- * Civil Works



- **INPROCESS (SPAIN)**
Www.inprocessgroup.com
- **COMPLETION TECHNOLOGY RESOURCES (NORWAY)**
www.ctr.as
- **TECNICAS REUNIDAS (SPAIN)**
www.tecnicasreunidas.es
- **IKM TESTING AS (NORWAY)**
www.IKM.no
- **GRUPO EGARA (SPAIN)**
www.grupoegara.com
- **AiM3 (SPAIN)**
www.aim3.net
- **ALBACAR ENGINEERS (SPAIN)**



Simulation to Business.
Knowledge to Profit.



Knowledge Transfer / Training

- **Process Simulation Training:** Steady State; Dynamics; Oil & Gas; LNG; Refining
- **Technology Courses:** Heat Transfer; Process Control; Improving Refinery Operations; Gas Transmission & Processing
- **KIP - Knowledge Improvement Program:** Training sessions linked to a customer simulation project
- **KSP - Knowledge Sustainability Program**
- **Training for Operations:** Educational Programs for Plant Operators

Simulation Projects

- **Steady State Simulations:** What-If studies; KPI calculation; Soft Sensors; Units Optimization; Refinery Reactors Calibration; LP Vectors Feeding; Flare Networks; Fouling Monitoring
- **Dynamic Process Modelling:** Compressors; Flare Loads Determination; HIPPS; APC; Pipelines Slugs; Water networks
- **Develop and implement client specific best practices:** Workflows; Optimization



Lifecycle Simulation / OTS

- **Dynamic Modelling for Detailed Engineering Studies:** Equipment sizing and protection; control logic and layout design; operating procedures
- **Check-out of the DCS databases:** DCS FAT with Virtual Plant; Operational Procedures Test
- **Operator Training Systems:** Operator Training; Emergency Scenarios;

Proprietary Applications

- **ITOP – Inprocess Training for Operators:** training on processes and unit operations
- **IIS – Inprocess Instructor Station:** for OTS projects
- **H₂ Network Management Tool:** to optimize H₂ networks in refineries
- **PSA Simulator:** to simulate H₂ purifying units, based on pressure swing adsorption
- **IFLOW:** to link dynamic process simulators with OLGA®
- **Process Simulators Extensions:** Process Units; Anti-surge Controllers; Third-party Thermo Integration



OVERSEAS PARTNERSHIP ALLIANCE

Completion Technology Resources AS (CTR) is a supplier of down-hole tools and services within well completion and well intervention.

CTR is a Norwegian oil- and gas service company founded in 2003 specializing in the design, manufacturing, testing and installation of well construction and well intervention products. CTR is recognized as a leading R&D specialist outfitted with state-of-the-art prototype equipment and testing facilities within development of down-hole tools. CTR also collaborates with customers as well as local universities to develop technology for specific regional needs.

After 10 years of research and development CTR has created a portfolio of high quality products such as retrievable and permanent plugs, packers and straddles with associated running- and pulling tools for well intervention services, monobore completion systems including liner hangers and safety valves with well proven and successful operational track records and ISO V0 certification.

CTR delivers complete tools with accessories and installation services, and CTR field engineers will ensure that the projects are performed according to all client's expectations. Total system capability is ensured because CTR designs and manufactures every single component of CTR's completion systems.

CTR has divided the main activities into following disciplines:

Research and Development

Manufacturing and testing

Field Services

www.ctr.as



CONTRADE

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OVERSEAS PARTNERSHIP ALLIANCE

We are an international general contractor, engaging in the engineering, design and construction of various types of industrial facilities for a broad spectrum of customers throughout the world, including many of the principal national oil companies as well as several multinational companies.

We are the leader for engineering and construction in the oil and gas sector in Spain, one of the leaders in Europe in the design and construction of oil and gas facilities, and one of the world leaders in the refining sector.

Most of our business is concentrated on large turnkey industrial projects, although we also provide engineering, management, start-up and operating services for industrial plants.



TR is an outgrowth of the former Spanish subsidiary of The Lummus Company, Lummus Española, S.A., founded in 1960. In 1972, a Spanish group of investors acquired 100 % of the shares of Lummus Española and renamed the company to **Técnicas Reunidas**.

Since 1960 the **TR group** of companies has **designed and built** more than **1000 industrial plants worldwide**. **TR's** multinational clients and licensors include the world's leading companies. The projects have been developed in over **50 countries covering the six continents**. The **international projection** of the **TR** group of companies and the keen specialization in the execution of **turnkey** projects, have been the bases of **TR's** expansion since the 80's. International projects account for **78%** of the company's annual turnover.

TR has incorporated the most advanced systems and technologies based on the latest generation of data processing tools to manage and design the projects. More than **5.500 professionals** have been trained and possess practical experience necessary to manage these projects.

TR develops all **designs** with 3D systems, and as such is able to produce "**three dimensional virtual plant models**" which eliminate potential problems derived from the integration of the various disciplines. This approach generates a **highly accurate and quality product with a greater added value** and is able to detect potential problems early in the design phase. The **TR** group applies the procedures established in its Quality and Environmental System in all the projects, certified according to **ISO 9001 / 14001**.

CONTRADE



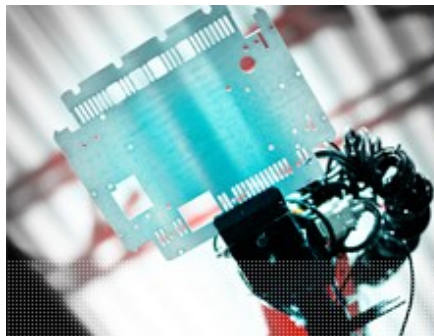
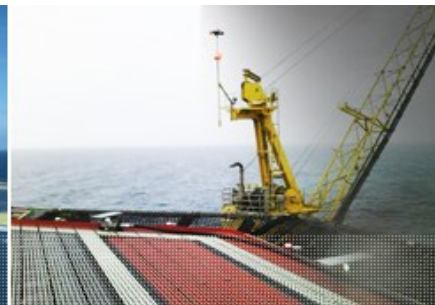
I-K-M

Providing Best Services in the Industry

OVERSEAS PARTNERSHIP ALLIANCE

IKM is a multidiscipline supplier to the oil and gas industry where growth is a priority: growth in sales, growth in profits and growth in the services supplied and products. IKM will continue to establish new, acquisitions and alliances, so we constantly develop ourselves as a quality supplier.

IKM Group employs approximately 2450 employees and has a budgeted turnover for 2015 of 4.2 billion NOK



www.IKM.no

**OVERSEAS PARTNERSHIP ALLIANCE**

Grupo Egara' is a registered trademark, a group commercial brand and logo, representing companies in this group (Excavaciones Egara, Estructuras Castro SL, Egarterra SL, Containers Terrassa SL, CJ

Edigar SL, Grupo Egara Maroc SARL, LP4 EDILITARE SRL, GARA GROUPE SARL) managed by a unique Chief Executive.

The beginnings: Excavaciones EGARA SL was the first company and it was established in September 1993 by Mr. Francisco Castro Torres.

Since then, the activity of the group has grown in size and prestige all the same. Currently, Grupo Egara is covering all phases of Project

Implementation on Civil Engineering, Public Works (Government, Municipalities) and Building Construction: earthmoving, demolition,

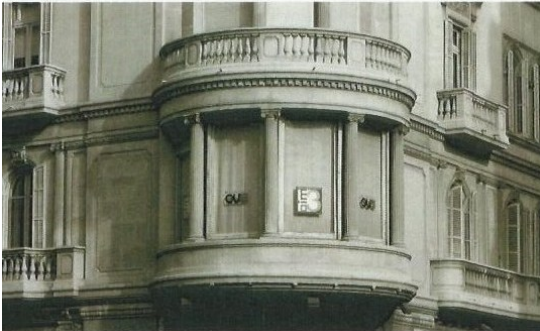
transport, supply of aggregates, clearcuttings, drilling, sanitation, Water purification stations, rubble-work, slurry reinforced-concrete walls,

formworks, building structures, masonry and facilities.





OVERSEAS PARTNERSHIP ALLIANCE



Aim3 is a full-service architecture, engineering and planning firm founded in 2002 by Jordi Artigas I Masdeu, in Barcelona.

The firm, with a wide experience in the sector, is highly focused on developing, managing and executing projects in the areas of planning, engineering and architecture, combining local expertise with global perspective.

Aim3 is a team of over 35 professionals working closely together with highly specialized cross functional partners to provide clients with a flexible and dynamic environment and solutions.

Aim3 is served with cutting edge technologies as tools to produce technically challenging and formally qualified planning and architecture.



Albacar Engineers

OVERSEAS PARTNERSHIP ALLIANCE



		BASIC PROJECTS		
	Human capital		Client Satisfaction	
		CONSTRUCTION PROJECTS		TECHNICAL ASSISTANCE
	Innovation			
Safety and quality	WORK MANAGEMENT		HEALTH AND SAFETY COORDINATION	
		Workplace respect		

CORE VALUE



S - SAFETY
I - INNOVATION
T - TEAM WORK
R - RESPECT
I - INTEGRITY
C - CREATIVITY
T - TECHNICAL LEADERSHIP

- Ownership of facilities/properties such as Lands , Vehicles, Equipment etc.
- Continual development, acquisition and improvement of facilities and resources

INFRASTRUCTURE

- Use of qualified/certified personnel.
- Adequate financial back up
- Recognition of host communities
 - Timely delivery
 - Quality delivery

What we are known for

PROCEDURES



Contrade has various procedures that guide their activities and the projects or supplies which are developed in line with client requirements, standard, codes and best practice.

REQUIREMENTS & BENEFITS

Requirements:

- Scope of Project
 - Type of Project
- Company's existing procedure
 - Codes and Standards
 - Client requirement

Benefits:

- Clarity of process
- Detection of error if any
- Correction of error if any
- Safe delivery of persone/equipment & project
- Quality delivery
- Timely delivery



CORPORATE QUALITY ASSURANCE POLICY

The quality of all jobs executed by us will not only meet the client's satisfaction but will also stand the test of time as we believe OUR JOBS SPEAK FOR US.

Our ultimate objectives / goal will be a continue improvement towards the target of error free work to avoid rework with its attendant extra cost and time.

We will always:-

- Meet standards we set.
- Act responsibly.
- Work together by sharing blame, information and
- Make joint decisions to improve satisfaction.

Each manager and supervisor has a part to play in the CASHES management system by exhibiting good example and reacting promptly and effectively against negative attitudes.

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Managing Director

LOCAL CONTENT CLARIFICATION

Contrade Ltd is committed to the development of local content and the demonstration is stated below:

Contrade ownership structure is 100% Ghanaian

Contrade Ltd confirms that we comply with the directive that all international codes and standards used in the industry are to be harmonized to support utilization of locally manufactured products and to improve capacity utilization in local industries.

One of the objectives of this company is to achieve socio-economic growth and maximize local content participation in the oil and gas industry in Ghana and globally.

We are growing, expanding and venturing into other arms of business in the oil and gas industry. We can only achieve this by employing more Ghanaians who shall be trained in various fields.