



## **CORPORATE AND MANAGEMENT PROFILE**

Trobell International Nigeria Limited (Trobell) is an indigenous company that was legally incorporated in Nigeria under the Companies Act of 1968 on June 17, 1987. The principal focus of the Trobell is on delivering professional consultancy services in Oil and Gas sector which includes but not limited to Pre-Shipment and Destination Inspection of Crude oil and physical goods (Cargo) inspection, Laboratory Testing Services, Fabrication, Infrastructural Development and General Contracting Services in Nigeria. Trobell was first appointed a Crude Oil Pre-Shipment Inspection Agent (PIA) by the Federal Ministry of Finance under the Nigerian Export Supervision Scheme (NESS) which was established by the Pre-Shipment Act No. 10 of 1996 on June 7, 2013 to inspect, determine and certify the Quality and Quantity as well as verify the Price of Crude Oil being exported from the Nigerian export terminals allocated to it

The key attractive distinguishing uniqueness of Trobell is that its promoters have a repertoire of relevant experience with professional qualifications to sustain the going concern given that the company has over **35 years** business experience in Nigeria. It is pertinent to mention that in addition to other numerous contracts Trobell has successfully completed, Trobell has successfully completed Five (5) Cycles of the Crude Oil Pre-Shipment Inspection spanning over 104 months (8 and half years) and still running.

### **Our corporate offices are in the addresses below:**

No. 34, Aliyu Modibbo Street, Guzape Asokoro Extension,  
Abuja-FCT, Nigeria  
Tel: +234-8033047961  
E-mail: [lawal.garba@trobell.com](mailto:lawal.garba@trobell.com)

No. 11, Nyemweli Nsirim Layout,  
Off Tombia Extension, G.R.A Phase 2 Port Harcourt,  
Rivers State, Nigeria  
Tel: +234-8131011152  
E-mail: [tom.sede@trobell.com](mailto:tom.sede@trobell.com)

14 Waziri Ibrahim Street,  
Victoria Island,  
Lagos, Lagos State,  
Nigeria.  
Lagos  
Tel: +234-8053290047  
E-mail: [tom.sede@trobell.com](mailto:tom.sede@trobell.com)

### **Our Mission:**

To provide innovative solutions that will improve and secure the trade environment and deliver cutting edge information management technologies to optimize services to our clients.

### **Our Vision:**

Our vision serves as the framework for our Blueprint and guides every aspect of our business by describing what we need to accomplish in order to continue achieving sustainable, quality growth.

**Integrity** – We are honest with others and ourselves.

**Trust** – We trust, respect and support each other.

**Partnership** – We have dogged commitment to being a good partner.

**Multiplicity** – We learn from and respect the cultures in which we work.

**Creativity** – We seek new opportunities and uncommon panaceas.

**Safety** – We place the highest priority on the health and safety of our workforce and protection of our assets and the environment.

**High Performance** – We are committed to excellence in everything we do, and we strive to continually improve.

## **OUR GOALS**

Client satisfaction is our future business. Our goal is to move beyond client satisfaction to client loyalty by completing our work on schedule, within budget and by exceeding our customers' expectations.

## **PRE-SHIPMENT INSPECTION EXPERIENCE IN NIGERIA:**

Having successfully and satisfactorily completed the first term of One (1) year contract, our principal has renewed the contract on periodic and temporary basis. These renewals have thus far staggered around months. We have hitherto successfully executed these contracts and rendered all our reports flawlessly. Currently, Trobell is still rendering services of Crude Oil Pre-shipment Inspection at the terminals allotted to it by the Federal Ministry of Finance, Budget and National Planning while awaiting the general routine contract renewal.

The company's leading workforce is a team of highly experienced professionals with more than 100 years combined experiences in related line of business. Trobell applies cutting edge information management technologies to optimize services to its client. Some of such systems independently acquired by Trobell are: customization and deployment of Pre-Shipment Inspection and Documentation System (PIDS) for Crude Oil Inspection with a service level agreement signed with the software developer "Barian Systems Limited", S & P Global Platts (agreement and evidence of annual subscriptions), International Organization for Standardization (ISO) certified among many other unique organisational innovative development Trobell has achieved.

### **Pre-shipment Inspection Documentation System (PIDS)**

Barian systems limited deployed a Pre-shipment Inspection and Documentation system (PIDS) for Trobell International Nigeria Limited in 2019. The system has since its deployment been fully operational.

- PIDS is made up of three (3) major sections namely: Inspection Findings, Transactions Documentations and Pricing / Evaluation.
- The Software has 3 user levels namely: Administrator, Operations, Documentation and Pricing. Each user has access to specific functions.

- The Software has a section dedicated to different reports as directed by the Central Bank of Nigeria and Federal Ministry of Finance Budget and National Planning.
- The Software has a module dedicated to Clean Certificates of Inspection (CCI) generation and Printing.
- The Software has a module dedicated to generating crude oil price models for every month.

PIDS is capable of performing the following functions:

- Capturing and retaining data
- Interpreting already captured data
- Generating crude price model for the month
- Generating clean certificates of inspection
- Generating periodic section reports
- Generating Invoice Schedules etc.

### **International Organization for Standardization (ISO)**

Being a registered member of ISO immensely enhance our corporate development and promotion of international standards for technology, scientific testing processes, working conditions, societal issues and more. Hence the values derivable from complying with ISO prescriptions cannot be over emphasized.

#### **Why an ISO is important for a company?**

ISO or the International Standards for Organization is an independent body which provides world class standards for organizations. Standards can be defined as quality, safety and efficiency of products or services being provided by a firm. ISO 9001 certification outlines the importance of high-quality goods and services. Also, when a company finds an increased market rate or high struggle in being differentiated, then ISO is a key which helps it sustain and nurture in the processes. Trobell achieved ISO 9001:2015 certification to help improve its business credibility and authority as well as the overall efficiency of the operation in order to compete with world best in our line of operation.

#### **S & P Global Platts**

S&P Global Platts is the leading independent provider of information, benchmark prices and analytics for the energy and commodities markets. For over 100 years, Platts has brought clarity and transparency to the energy and commodities markets, enabling companies, governments and individuals to act with conviction.

From an original focus on petroleum, Platts now cover oil, natural gas, LNG, electric power, coal, shipping, petrochemicals, metals, agriculture, and energy transition. Each day Platts publish news, commentary, fundamental market data and analytics, and thousands of daily price assessments that are widely used as benchmarks in the physical and futures markets.

Source: Platts website: <https://www.spglobal.com/platts/en/about>

## **PLATTS PRODUCTS AND SERVICES**

The markets are constantly changing, but Platts' real-time news, market reports, analytics, price assessments and fundamental data always provide a valuable reference point. We're constantly investing in our products and services, and following a series of key acquisitions, including Bentek, and PIRA, they have strengthened their Analytics team. They have enhanced their forecasts, data sets and tools, and now provide the most robust analytics offering available to ensure their customers can maximize value in their chosen markets.

Each day we showcase a selection of their news, analytics, and video insight on the Market Insights section of their website. Subscribing to Platts give the subscriber unrestricted access to a world of current commodities markets information.

### **Our Services**

Our proficiency provides cost effective inspection, sampling, inventory - control and laboratory analysis for Crude Oil composition as well as the full range of petroleum and petrochemical products. We are also highly reputed in loss control - expediting role. By triangulation (combing) of the array of technologies and current information at our disposal, Trobell is able to conveniently tailor its services to suit individual client's specific needs and these abilities are domesticated in all our network of offices and laboratories. Principally, our services cover the following areas of operations:

- Pre-Shipment Inspection Services
- Vessel Loading and Discharging Inspections
- Laboratory Analysis
- Bunker Surveys
- Tank and Compartment Cleaning
- Time Logging
- Well Wash Testing
- Railcar Tank Loading Discharging Surveys
- Tank and Meter Calibrations

- Suitability Inspections
- Certification
- RFG Batch Reporting to EPA
- Cargo Sampling, Vessels, Terminals, Warehouses
- Loss Control Services
- Cargo Expedition
- Draft Surveys and Bulk Cargo Loadings and Discharges
- Customizable Reporting and Data Exchange
- Corrosion Prevention & Control Services
- Pipeline Maintenance
- Pipeline Pigging & Inspection
- Storage Facility Maintenance
- Laying of oil & gas pipeline
- Pipeline Fabrication/Construction
- Clean up of Oil Spills. This includes the use of Remediation method and Thermal Desorber or Thermal Desorption Unit (TDU)
- Provision of Marine Logistics.

Trobell has excelled in providing world class services in the crude oil pre-shipment inspection industry in Nigeria. This is evidenced in the continued increase of our terminals from Five (5) in June 2013 to Eight (8) in April 2016 and currently Fifteen (15) with effect from July 5, 2017. The consistent increase in our terminals over the last Four (4) years is a reward for our quality, professionalism and consistency. It also depicts the confidence of our principals as a result of their satisfaction.

### **CONSULTANT’S EXPERIENCE**

<b>Assignment Name:</b> Pre-Shipment Inspection of Crude Oil Exports.	<b>Country:</b> Nigeria
<b>Assignment Location Within Nigeria:</b> <ul style="list-style-type: none"> <li>▪ Escravos - (Warri- Delta State)</li> <li>▪ Ukpokiti - (Warri- Delta State)</li> <li>▪ Okoro - (Port Harcourt – Rivers State)</li> <li>▪ Okwori - (Port Harcourt – Rivers State)</li> <li>▪ Obe - (Port Harcourt – Rivers State)</li> <li>▪ Qua Iboe - (Eket - Akwa Ibom State)</li> <li>▪ Bonny - (Port Harcourt – Rivers State)</li> <li>▪ Pennington - (Koluama – Bayelsa State)</li> </ul>	<b>Duration of Assignment (Months):</b> Over 104 months

<ul style="list-style-type: none"> <li>▪ Akpo - (Akwa Ibom State)</li> <li>▪ Abo - (Warri- Delta State)</li> <li>▪ Ajakpa - (Warri- Delta State)</li> <li>▪ Erha - (Warri- Delta State)</li> <li>▪ Forcados - (Yenagoa – Bayelsa State)</li> <li>▪ Aje - (Lagos State)</li> </ul>			
<b>Name of Client:</b> Federal Ministry of Finance Budget and National Planning		<b>Professional Staff provided by the Organization:</b> 15	
<b>Start Date</b>	<b>Completion Date</b>	<b>No. of Persons</b>	<b>Months</b>
June 2013	June 2014	39	13
July 2014	August 2014	39	2
September 2014	October 2014	39	2
November 2014	December 2014	39	2
January 2015	June 2015	39	6
July 2015	June 2017	39	24
July 2017	Date	74	55
		Total number of months as at January 2022	104
<b>Professional Staff/Experts</b>	<b>Responsibilities</b>		
Lawal Garba (Chairman/CEO)	As the Entrepreneur, he presides over the entire affairs of Trobell businesses. Gives the direction of the business, gives all financial and other general authorizations. He’s involved in that day-to-day running of the affairs of the business. He controls the operations of Trobell largely through the office of the Managing Director.		
Sede Thomas (Managing Director)	Oversees the overall day-to-day operations of the organization, ensure effective planning, coordinating efficient decision making.  Ensures absolute compliance to guiding regulations, efficient and timely delivery of flawless reports to our clients by intermittently and comprehensively reviewing them thoroughly before they are dispatched. He is authorized by the Chairman to endorse the reports on his behalf. Interacts with exporters, CBN, NNPC, the defunct DPR now the Nigerian Upstream Regulatory Commission, (NURC), processes all the regulatory certifications and documents		

	<p>such as ITF, NSITF, PENCOT, Audited Account, TCC, DPR Permits, ISPON, NES etc. Manages a strong and cordial relationship with host communities.</p> <p>Ensures Inspectors are adequately and promptly mobilised to export terminals to avoid gaps. Ensure a safe and secure internal and exogenous working environment among many others.</p>
Egwanwo Victor (Documentations Manager)	<p>Ensure that documentation Standards and Procedures are followed as stipulated in the NESS Technical guidelines.</p> <p>Ensure the accuracy of data received corresponds without deviations across the IOCs and Trobell International Operation Department prior to the submission to the FMF &amp; CBN.</p> <p>Compute Crude Oil pricing within the relatively acceptable Daily Oil Pricing. Prepare CCI printing schedule. Prepare and transmit electronic copy of crude oil Inspection report to FMF and CBN.</p> <p>Prepare Comprehensive, Consolidated, Operations, Financial and Invoice Templates Ensure that accurate data analysis is carried out on all events for the purpose of pre – shipment inspection.</p> <p>Ensure that monthly, quarterly, and annual Operational and Financial Reports are prepared and ready for submission within the specified timeframe.</p> <p>Prepare the company’s monthly invoice in accordance with reports for payment, maintaining 100% accuracy.</p>
Christopher Uwandu (Operations Manager)	<p>Supervises the operations department, relates with terminal Agents/ Administrators /Operators, peruse field reports and produce clean reports, ensures that Inspectors are PPE, safety and industry compliant. More details in section 2.2 Consultant’s Experience.</p>
Ita Itek (Assistant Operations Nanager)	<p>Assist in supervising the operations department, relates with terminal Agents/ Administrators /Operators, peruse field reports and produce clean reports, ensures that Inspectors are PPE, safety and industry compliant. More details in section 2.2 Consultant’s Experience.).</p>
<b>MUHAMMAD DANJUMA</b> Financial Analyst (Chief Accountant)	<p>As the chief financial officer of Trobell, Muhammed is responsible for originating all financial transactions of the company, accurate record keeping of financial matters as well as financial report generation. He is responsible for</p>



	<p>producing management reports, statement of financial position, work with the external auditors for prompt release of audited accounts, Tax Clearance certificate. He generates payroll, payee, and pencom schedule for the review and recommendation of the Managing Director. He is also a control person; he ensures that all requisitions are thoroughly scrutinized before he recommends to the Managing Director for approval. He equally does stock counts to ensure effective utilisation of consumables.</p>
<p><b>DOGBE, BARINEKA PRECIOUS</b> Senior Laboratory Technologist I</p>	<ol style="list-style-type: none"> <li>1. In charge of day to day running of laboratory.</li> <li>2. Receives the report of analysis from laboratory chemist and prepare certificate for each analysed crude sample.</li> <li>3. Supervision of the laboratory chemist and to update standard operating procedures (SOP) for each ASTM (American Society for Testing Materials).</li> <li>4. Make request for materials needed for analysis in the laboratory.</li> </ol>
<p><b>UNYIME DENNIS AKPAN</b></p>	<ul style="list-style-type: none"> <li>• Liaise with other department and units for coordination and smooth running of the office</li> <li>• Coordinates daily administrative workflow</li> <li>• Hiring and training with other management staff</li> <li>• Maintain staff files and other folders</li> <li>• Monitor and take inventory of used items/stationary consumables</li> <li>• Manage compensation structure and staff benefits packages</li> <li>• Write internal memorandum, letters (Appointment and Terminations), and replies to letters directed to the department</li> <li>• Develop training plan and Monitor activities</li> <li>• Prepare annual maintenance plan</li> <li>• Perform staff Appraisal with other authorized management staff</li> <li>• Develop HR department SOP/Objectives</li> <li>• Prepare staff competency matrix /records</li> <li>• Distribute job description</li> <li>• Implement procedures and follow up on compliance</li> </ul>

	<ul style="list-style-type: none"> <li>• Coordinates staff leave</li> <li>• Apply sanctions and disciplinary measures</li> <li>• Counsel and provide coaching when necessary</li> <li>• Maintain mutual understanding among employee for relationship growth</li> <li>• Take of minutes of meeting</li> <li>• Arrange for refreshment when there is training and facility routine inspection</li> <li>• Conducts required awareness on Quality Management System (QMS)</li> <li>• Filing of Documents</li> <li>• Updating policies and sending out memorandums</li> <li>• Sourcing and negotiating with vendors</li> <li>• Sourcing for materials, items, stationaries etc.</li> <li>• Follow up on services or product to be delivered before delivery to ensure accuracy</li> <li>• Handle and seek solutions for customers non-compliance issues</li> <li>• Confirmation of the office supplies of purchased products or services to ensure accurate quantity and quality delivery</li> <li>• Conduct performance evaluation of the vendors with management</li> <li>• Write procurement request for office supplies, materials, equipment, consumables and general office stationaries</li> <li>• Follow up on maintenance and vendors Services-level Agreement (SLA) renewal.</li> </ul>
<p><b>AGHAFUA OSARO</b> Senior Laboratory Technologist II</p>	<p>Determines the approximate chloride (salt), determines the density, relative density, API gravity of crude petroleum. Determines water content in crude petroleum for quality control purpose. More details in section 2.2 Consultant’s Experience.</p>
<p><b>BASHIR SULE</b> <b>KOFAR SAURI</b> (ICT/Documentation Supervisor II)</p>	<p>Supervises CCI printing, compilation of monthly invoice folder, completion of PIA section on the NXP form, Ensuring the distribution of printed CCI and completed NXP forms to</p>

	their appropriate quarters. Liaise with Nigeria Customs as required by NESS
<b>UMAR MUSA MAGAJI</b> (ICT/Documentation Supervisor II)	Supervises CCI printing, compilation of monthly invoice folder, completion of PIA section on the NXP form, Ensuring the distribution of printed CCI and completed NXP forms to their appropriate quarters. Liaise with Nigeria Customs as required by NESS
<b>MUSA NASIRU</b> (ICT/Documentation Officer)	IT support, Data extraction, collation, and preparation, printing of CCIs, production of monthly, quarterly and yearly financial & operations reports as required by NESS guideline (team member).
<b>MOHAMMED BABAKANO USMAN</b> (ICT/Documentation Officer)	IT support, Data extraction, collation, and preparation, printing of CCIs, production of monthly, quarterly and yearly financial & operations reports as required by NESS guideline (team member)
<b>JEREMIAH R. KUFFON</b> (Laboratory Technologist I)	Determines the approximate chloride (salt), determines the density, relative density, API gravity of crude petroleum. Determines water content in crude petroleum for quality control purpose.
<b>MOHAMMED LAWAL</b> (Laboratory Technologist II)	Determines the approximate chloride (salt), determines the density, relative density, API gravity of crude petroleum. Determines water content in crude petroleum for quality control purpose.
<b>EMMANUEL AKPORHONO</b> Internal Auditor I	Assist Internal Auditor I in determining the accuracy of the financial statements prepared by the company. Analyse the principle of going concern or company solvency. Detect fraud in the company. The company's compliance with its legal obligations. Check the responsible behaviour by the company in environmental and social aspects
<b>SIKIRU FAGBEMIDE</b> Internal Auditor I	Determining the accuracy of the financial statements prepared by the company. Analyse the principle of going concern or company solvency. Detect fraud in the company. The company's compliance with its legal obligations. Check the responsible behaviour by the company in environmental and social aspects
<b>DORNU SIMEON NGBAA MNSE, CEng, MPMI</b>	Responsible for monitoring and enforcing health and hygiene legislation. They also investigate when there's an incident,

(Environmental and Safety Expert)	<p>such as pollution, a noise problem, toxic contamination, pest infestation:</p> <p>Advising employers about matters of environmental health</p> <p>Compiling reports</p> <p>Delivering training</p> <p>Investigating complaints</p> <p>responsible for monitoring and assessing hazardous and unsafe situations.</p> <p>Developing measures to assure personnel safety.</p> <p>Correct unsafe acts or conditions through the regular line of authority</p> <p>May exercise emergency authority to prevent or stop unsafe acts when immediate action is required.</p> <p>The Safety Officer maintains awareness of active and developing situations.</p> <p>Ensures there are safety messages in each Incident Action Plan.</p> <p>Participate in planning meetings to identify any health and safety concerns inherent in the operations daily work-plan.</p> <p>Review the Incident Action.</p> <p>Plan for safety implications. Investigate accidents that have occurred within incident areas.</p>
FIELD INSPECTORS	
Ese Stephen (Chief Loss Control Expert I)	Inspection of oil lifting for quantity determination, quality analysis & loss control.
Sede Joseph (Chief Loss Control Expert II)	Inspection of oil lifting for quantity determination, quality analysis & loss control.

## **Custody Transfers, Loss Control and Claims Prevention**

Cargoes such as crude oil and bulk liquid products attract sensitive commercial dealings, and the focus is essentially on quantity, quality and price (QQ&P) of the commodity. It is a challenging trading setting that entails prompt resolution of any discrepancy as some claims may remain unresolved for a very long period with costly and avoidable litigations inherent in the transactions.

Many of the losses in the Custody Transfer regime are significant and remain non-recoverable. Sometimes these amount to millions of dollars. Mistakes/errors in measurement, sampling and analysis reporting can remain undetected and become known as “apparent losses” as they are generally never discovered. It is only when intervention occurs (i.e. controlling losses up front) from an experienced third party (Trobell International Nigeria Limited) at a point or points of the Custody Transfer that these losses can be prevented.

The big question is what might this be? Trobell is constituted for the purpose of overseeing all the major activities performed in the Custody Transfer and to proactively mitigate common mistakes inherent in them. We look at the problems associated with Oil Terminals without a “Line fullness policy”, an Integrity Inspection program and a shore tank or meter calibration verification plan in place to prevent quantity/quality claims. Our processes look at the problems associated with vessel measurement and the vessel experience factor when occasionally Bills of Lading are based on ships measurements.

Traders who are unaware of the handling issues surrounding the various crudes and products, the problems associated with losses in certain terminals and vessels and fail to pass on definitive instructions to their inspectors do suffer in the long run. Trobell processes put this right and address many of the traders’ concerns.

Trobell surveyors are present at shore tanks and tanker inspection of cargo lifting.



Commercial crude oil supertanker



The Very Large Crude Carrier (VLCC)





Aerial View of Crude Oil Tanker and Storage Tanks



### Floating roof storage terminal

Description of the oil storage terminal.

The oil storage terminal contains a number of storage tanks in one large bund usually made with earth dikes. Between the tanks there are lower inner dikes.

- The crude oil storage tanks with content measured in cubic meters each and label boldly with: For example, D1, D2, D3, D4 etc

- Other storage tanks for the multifunctional storage of crude oil or slop oil, with content measured in cubic meters each. For instance: D10 and D11;
- There are also small tanks; Perhaps D26, with content also measured in cubic meters which are out of service.

See picture above (Floating roof storage terminal)

#### Detailed Narrative Description of Project:

Trobell International as a professional independent Crude Oil Pre-shipment Inspection Agent (PIA) has worked for Thirty One months to date and will continue to work within the confines of the Terms of Reference (TOR) by employing internationally accepted standards in carrying out PRE-SHIPMENT INSPECTION OF CRUDE OIL EXPORTS with core attention on determining true quality and quantity as well as comparative price analysis of Crude Oil export to ascertain if the Freight On Board (FOB) prices invoiced corresponds with prevailing fair market export prices and accepted FOB definition under Incoterms 2010 based on our field data from the export terminals in Nigeria .

Our inspection and verification mechanism provides checks for loss control and shipment details/cargos – Crude Oil ordered overseas and interface with other government agencies (DPR, FIRS, Terminal Operators, NNPC, etc) to safeguard national financial interests in the prevention of capital flight and commercial fraud.

Our surveyors (Field inspectors) have the following mandatory requirements:

1. Current Annual Medical Certificate of Fitness
2. Means of identification which could be either international passport, National Identity Card or National Driving License
3. Tropical Basic Offshore Safety Induction Emergency Training (TBOSIET)
4. Compressed Air Emergency Breathing System (CA-EBS) Certificate
5. Tropical Further Offshore Emergency Training (TFOET)
6. Current DPR Offshore Safety Permit (OSP)



## EQUIPMENT LIST

<b>LABORATORY EQUIPMENT</b>	
<b>S/NO</b>	<b>Name and Description of Equipment</b>
<b>1</b>	<b>Salt in crude analyzer (SETA):</b> made by SETA in England the instrument introduces new software and hardware features to meet growing changes in the petroleum industry used for analyzing salts of calcium, sodium, magnesium with ASTM 3230
<b>2</b>	<b>Sulphur in crude analyzer: (SLFA 60)</b> made by Horiba Scientific in England used for analyzing the quantity of Sulphur in crude oil. Value measured in percentage its use conforms with ASTM D4294
<b>3</b>	<b>PH meter:</b> the PH meter is an electric device that is used to measure the hydrogen ion activity (acidity or alkalinity in a solution. It consists of a voltmeter attached to a PH responsive electrode and a reference (unvarying) electrode which is usually glass.
<b>4</b>	<b>Centrifuge:</b> The centrifuge has a strong plastic frame and uses a sturdy serum material that works with a slow speed centrifuge and runs at 4000rpm with a step to adjust speed control and it can handle 20mg and uses a maximum RCF of 1790 grams which runs for 60 mins
<b>5</b>	<b>Reid vapour pressure:</b> The instrument used is to test and determine the vapour pressure of gasoline, crude oil, and other volatile petroleum products. It has digital temperature control, two precise pressure meters to detect the gas pressure inside, two set of vapour press it was manufactured by Shanghai Changji Geological instrument co ltd China
<b>6</b>	<b>Viscometer NDJ 5s:</b> the viscometer is an upgrade version of rotary viscometer. The equipment adopts the advanced mechanical design, manufacturing technology and microcomputer control technology data acquisition right, high brightness LCD display with blue back light.

7	<b>Flashpoint tester (SYD 3536):</b> the instrument is designed and made as per standard GB/3T3536-2008 petroleum products .it is used for the determination of flash and fire points using Cleveland open cup method ASTM D9@ standard test method for flash point and fire point and it is applicable to all petroleum products with flash point above 79°C and below 400°C except fuel oil.
8	<b>Fume hood:</b> the fume hood is a large piece of equipment enclosing five sides of work area, the air drawn in from the front (open)side of the cabinet and expelled outside the building or made safe through filtration and feed back in to the room and this is used to protect the user from inhaling toxic gases protect the product or experiment and finally protect the environment.
9	<b>Geiger counter:</b>
10	<b>Water distiller:</b>
11	<b>High powered microscope (Olympus CH):</b> the Olympus microscope comes with a binocular or trinocular viewing head with 10× 18mm for eyepiece and has 4 position nose piece and with EA 4×, 10×, 40×, and 100×oil objectives, mechanical XY stage and a 1.25N.A condenser. The microscope is used for routine biological and chemical work in the laboratory.
12	<b>Electric drying oven:</b> the instrument is stainless steel interior with chambers that are suitable for glass wares in the laboratory with a temperature ranging from 0.1 - 300°C and a voltage of 110v60Hz/ 220v50Hz.
13	<b>Magnetic hot plate stirrer (78Hw-1):</b> The instrument is used for mixing and heating aqueous solutions for a great variety of chemical reaction such as synthesis. The stirring bar is immersed in the liquid to provide the stirring action. It was manufactured by Kalstein Ltd in France.
14	<b>Portable Fuel (RON, MON &amp; %Ethanol) Analyzer Model ZX-101XL</b> Determines the Pump Octane Number (AKI), Research Octane Number (RON) and Motor Octane Number (MON) of unleaded gasoline. Percentage Ethanol in Gasoline.

15	<b>Semi-automatic Cloud &amp; Pour Point Tester</b> 1 Chamber,4 Test-Positions ASTM D 97 - ASTM D 2500 - ASTM D 5853 - DIN 51 597 - EN 23015 - IP 15 - IP 219 - ISO 3015 - ISO 3016 ASTM D97 IP 15 ISO 3016 POUR POINT OF PETROLEUM PRODUCTS This test method covers and is intended for use on any petroleum product. A procedure suitable for black specimens, cylinder stock, and non-distillate fuel oil
16	<b>Tamson Automated Filter Blocking Tendency Tester</b> Made in The Netherlands
17	<b>Colour Tester – 2 Options 2a Lovibond Colour Comparator (Manual)</b> ASTM D 1500 - ASTM D 6045 - FTM 791-102 - IP 196 – ISO 2049 This test method covers the visual determination of the color of a wide variety of petroleum products such as lubricating oils, heating oils, diesel fuel oils, and petroleum waxes.
18	<b>TAMSON HIGH TEMP VISCOSITY BATH</b> TV4000 ASTM D 445 - ASTM D 446 - IP 71 - ISO 3104 - ISO 3105 ASTM D 2170 - IP 319
19	<b>Automatic Freezing Point Analyser</b> (stand alone version with touch screen panel PC) Model NewLab 410 Freezing Point Made in Switzerland by Linetronic Technologies Freezing Point of aviation fuels, aviation gasoline, aviation turbine fuels, engine coolants, antifreeze products, brake fluids, ...
20	<b>Linetronic Automatic Existent Gum Tester</b> Model OilLab 560 Made in Switzerland by Linetronic Technologies Gum Content in Fuels by Jet Evaporation This test method covers the determination of the existent gum content of aviation fuels, and the gum content of motor gasolines or other volatile distillates in their finished form (including those containing alcohol and ether type oxygenates and deposit control additives) at the time of test
21	<b>Tanaka Automated Distillation Tester</b> Model ad-7. Made in Japan ASTM D86-12, ASTM D850, ASTM D1078, ISO 3405, ISO 918, IP123, IP195, GOST2177JIS K 2254, JIS K 0066, For the examination of kerosines, motor gasolines, aviation gasolines, aviation turbine fuels, diesel, special boiling point spirits, naphthas, white spirits, gas oils, distillate fuel oils and similar petroleum products

22	<b>Portable Density Meter</b> Model DA-130 by Kyoto Electronics of Japan · Sampling volume and speed is single hand controlled. (Patent pending) · Operative either by right or left hand, the cell can be viewed during measurement
23	<b>Tamson Laboratory Low Temperature Circulator (Chiller)</b> 14,982,000 4,982,000 Complete with tubing/connector The TLC15-5 is a very compact and robust low-temperature circulator. The TLC15-5 offers refrigeration and heating in a single unit and can be used for internal and external applications. The TLC15-5 is very quiet, and has a small footprint. The robust TLC15-5 is maintenance free. The wetted parts are made from stainless steel. The bath is standard equipped with RS232 communication port, which can be used with free TamCom software. The TLC15-5 has an extremely accurate temperature control and a rapid cool down time.
24	<b>Water &amp; Sediment in Crude Oils</b> ASTM D4007 - Water and Sediment in Crude Oil This test method describes the laboratory determination of water and sediment in crude oils by means of the centrifuge procedure.
25	<b>Vacuum Distillation Unit</b> – 2 Options 13a ASTM-System “i-Fischer Dist D-1160 CC” Computer Controlled/Fully Automated Vacuum Distillation Unit
26	<b>Automatic Potentiometric Titrator</b> Model AT-710S (Twin Burette Type) Manufacturer:Kyoto Electronics of Japan For TAN/TBN ASTM D664 – D974 – D2896 – D3227 · Titrant Information is stored in an IC chip in the burette unit (Smart burette) · Information stored in the electrode cable (Smart electrode) · New burette unit · Large color TFT-LCD with a touch panel (8.4-inch) · Two different user levels and permissions · Two different potentials, such as pH/ transmittance, pH/ conductivity or pH/ temperature can be logged simultaneously. · Monitoring temperature during titration ensures safe measurements · Measurement results are converted to PDF and can be stored in a USB flash drive
27	<b>D2892 Crude Oil Distillation System</b> including other consumables and letter of credit (\$500)

S/NO	NAME	QTY	BRIEF DESCRIPTION
<b><u>ELECTRICAL EQUIPMENT/TOOLS</u></b>			
1	Digital Multi-meter Mode	1	Approved standard
2	3 1/2 Digital Voltmeter Ranglo	3	Approved standard
3	3-1/2 digital portable D.C. Voltmeter Range	2	Approved standard
4	Screw Driver	10 SETS	Approved standard
5	Cutter	5 SETS	Approved standard
6	Plier	10 SETS	Approved standard
7	Relay Testing Kits	1	Approved standard
8	Meggers	3	Approved standard
9	Earth Testers	1	Approved standard
<b><u>PLANTS, MACHINERIES AND VEHICLES</u></b>			
1	TOYOTA COROLLA (SPORT EDITION)	2	2018 Model (SBQ-505-TL &
2	TOYOTA HILUX	2	2018 & 2020 Model (DEG 988-TD & BRR 241 DV)
3	LEXUS GX-460	1	2015 Model (NCH-144-NY)
4	HYUNDAI ACCENT	3	2019 Model (AFM134-MK, AFM-135-MK & AFM-136-MK)
5	HUNDA ODYSSEY	1	2019 Model (KWL 17 BT)
6	RANGE ROVER LONG WHEEL	1	2019 Model (FTA 256 S2)
7	BENTLEY	1	2019 Model (FTA 111 BT)
8			
9			
3	PEUGEOT 506	2	2018 Model

4	RANGEROVER SPORTS	1	2018 Model
5	27 KVA SOUND PROOF GENERATOR	5	Mikano
<b><u>OFFICE EQUIPMENT</u></b>			
1	CANON C2220L COLOURED COPIER	1	Brand New (2020)
2	CANON C2520 IMAGE RUNNER	1	Brand New (20121)
3	HP OFFICE JET 6500 - PRINTER	2	Brand New (20121)
4	HP OFFICE JET 7500 - PRINTER	2	Brand New (20121)
5	HP OFFICE JET 4500 - PRINTER	4	Brand New (20121)
6	HP DESKJET 2610 - PRINTER	2	Brand New (20121)
7	HP DESKJET 1515 - PRINTER	1	Brand New (20121)
8	EPSON LQ2190 - PRINTER	1	Brand New (2020)
9	HP PAVILLION G6 - LAPTOP	4	Brand New (2020)
10	HP PROBOOK - LAPTOP	1	Brand New (2020)
11	DELL INSPIRON 5040 - LAPTOP	1	Brand New (Windows 10)
12	SANYO SHREDING MACHINES	4	Brand New (2020)
13	BLUE GATE AVR 3000VA STABILIZER	2	Brand New (2020)
14	MAXTRON AVR UPS (1.2A)	10	Brand New (2020)
15	LG SPLIT UNIT AIR CONDITIONERS (1.5HP)	6	Brand New (2020)

16	SPLIT UNIT AIR CONDITIONERS (1HP)	7	Brand New (2020)
17	REFRIGERATORS	4	Brand New (2020)
18	HP DESKTOP PC	8	Brand New (2020)
19	FULLY EQUIPED FIRST AID BOX	3	Brand New (2021)
20	POWER SURGE EXTENTION	8	Brand New (2017)

<b><u>MISCELLANEOUS EQUIPMENTS</u></b>			
1	Wheel Barrow	3	Approved standard
2	Head Pan	2	Approved standard
3	Spade	4	Approved standard
4	Sprit Level	1	Approved standard
5	Range	2	Approved standard

**Sede Thomas A.**

Managing Director.