



# The Horizon

TOSL's OFFICIAL NEWSLETTER

I S S U E 1 2



# Table of Contents

- 03** Managing Director - End of Year Message
- 04** HSSE Stats
- 05** Company News - Amcham HSSE Awards
- 06** TOSL Welcomes New Director
- 06** World Quality Day
- 07** Lessons Learnt HSSE
- 08** Lessons Learnt Quality
- 09** Product Spotlight - Ariel
- 10** Service Spotlight - Framatome
- 11** Case Study



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# Reflecting and Moving Forward into 2023

With the close of 2022, we ponder on what has happened over the past year as we usher in the new one.

2022 started on a high note as we celebrated our 40th Anniversary on March 01 reminiscing on the company's operations from 1982 to the present day. Since commencing operations in March 1982, we saw significant development and expansion under the astute leadership of Mr. Shazan Ali. In 2020, as part of the company's strategy and succession plan, Mr. Ricardo Mahadeo assumed the role as Managing Director to continue to propel the ship towards new areas and regions in alignment with our Core Values, Mission, and Vision. This saw the company expanding outside of Trinidad and Tobago into Guyana, Suriname and islands in the Eastern Caribbean. Additionally, as an investment in sustainability, we started focusing on environmental, social and governance (ESG) whereby we sent our Manager-QHSES to attend COP 27 in Egypt.

*"We do not learn from experience. We learn from reflecting on experience." - John Dewey*



**Ricardo Mahadeo**

*Managing Director  
TOSL Engineering Limited*

As we continued the year, as a signal of our commitment towards continuous improvement and establishing higher standards, TOSL was recognized for its excellence in the areas of Corporate Governance and Health, Safety, Security and Environment (HSSE). For the fourth time, we were the recipients of the Energy Chamber's Corporate Governance Award while we were able to win 3 out of the 4 categories of the American Chamber of Commerce HSE awards. Furthermore, in September we were approved as a Workforce Assessment Centre (WAC) for Scaffolding Levels I and II by the National Training Agency.

TOSL's greatest asset is its staff. Hence, to foster camaraderie and build on team spirit, the HR and HSSEQ Departments organized an Employee Fun Day in July that allowed employee collaboration, friendly competition and fun outside of the work environment. Additional employee engagement occurred during the year with Mr. Ali's 75th birthday celebrations, World Quality Day events and our end-of-year Mix and Mingle staff event.



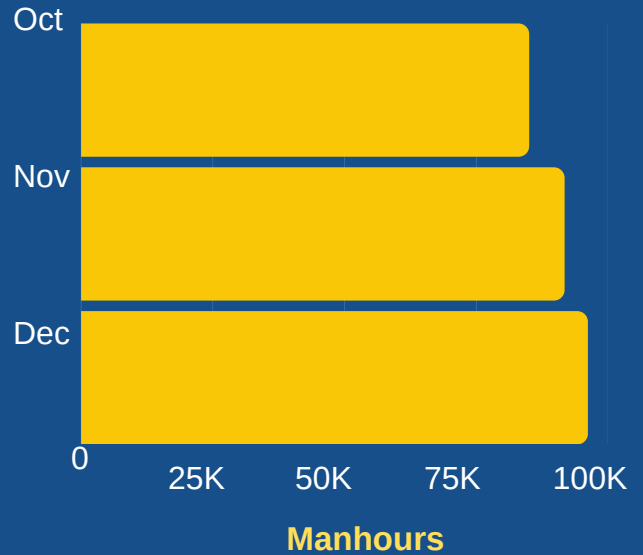
Learning to navigate the COVID world was challenging yet exciting in terms of supporting our internal and external customers. TOSL found new ways to serve its external customers, one of which was the launch of our online store in September. In terms of our employees, one of our main objectives was to improve their health and wellness. Following the Employee Fun Day, and as part of the Health and Wellness Drive, the HSSE Committee in collaboration with the HSSEQ Department, organized a hike through the Bamboo Cathedral up to the US Operated Tracking Station. This gave employees an opportunity to become engaged in an outdoor activity as a means to improving health, wellness and giving persons an opportunity to interact and socialize.

As per the start of the year, we were able to end the year on a high note as our Mobile Offshore Production Unit (MOPU), safely processed 5M barrels of liquid and 10.2kMMSCFD since being commissioned in March 2020.



## HSSE STATS 2022 Q4:

- Lost Time incidents – 1
- OSHA Recordable – 1
- Medical Treatment Case - 1
- Manhours – 272,802



Moving into 2023 and beyond, we shall continue to develop the initiatives started in 2022 as we have a clear focus on our Core Values of Integrity, Passion, Accountability, Customer Focus and Teamwork and are strategically poised to execute. We have a dedicated team who continue to meet the customers' and market needs while looking for opportunities for continued growth. Thanks to our Board of Directors, Management and Staff for their dedication and commitment in 2022 as we turned some challenges into opportunities. We are no good when we are alone, but united, we stand strong. Let us continue to work together to overcome any obstacles that may arise in the year ahead.

***Embodying Success:  
TOSL's Five Pillars of  
Excellence.***



# Company News

## TOSL Cops 3 Out of 4 AMCHAM HSSE Awards

Our HSSEQ journey started in 1998 when we decided as part of our strategic plan to actively pursue certification to an internationally recognized quality system to differentiate ourselves from others in the local Energy Sector. After achieving our ISO 9001 quality certification in 2000, in 2003, we achieved ISO 14001 compliance. Since then, HSSEQ has become part of our key values and essential to our culture.

As a sign of our HSSE promise, on November 02, during the 2022 AMCHAM HSSE Conference, TOSL was the proud recipient of 3 out of 4 AMCHAM HSSE awards in the categories of:

1. Most Improved OSH/ Environment Performance
2. Outstanding OSH & Environment Project
3. Excellence in HSE

We congratulate our HSSEQ Team and Staff for their contributions towards this momentous occasion. We also express our gratitude to all members of the HSSEQ team for their hard work to ensure we presented and delivered as per the award requirements. Your commitment and perseverance are commended and very much appreciated. These awards could not have been achieved without the input and contributions of all Staff and hence we thank each member for making this happen.

It has been a challenging voyage, but with inclusion, participation and dedication company-wide, we have been able to demonstrate our responsibility of ensuring our work is conducted in a safe manner.



*Left to Right: Danelle Dhaniram (Manager-HSSEQ), Reuben Rampersadsingh (HSSE Officer), Meera Gangoo (HSSEQ Co-ordinator)*

We have now added to our achievements in the HSSE arena as we continue to excel and raise the bar.

## Report It!



If you have a concern about TOSL you can report it anonymously any time, 24/7 in the following ways:

**Toll Free Hotline: +1 800 872-2281**

**OR**

**+1 877 RPT-LINE**

**OR**

**Report Online [www.tosl.com](http://www.tosl.com)**

**username: tosltd**

**Password: reportit**

# Company News

## TOSL Welcomes New Director



*Dr. Priya Marajh, Board of Directors, TOSL*

On October 01, 2022, we welcomed Dr. Priya Marajh to our Board of Directors.

Dr. Marajh has extensive experience in both corporate and academia in the fields of energy, international business development,

international relations, research, policy development, advocacy, diplomacy, local content development, and international law.

We look forward to working with her as she shares her experiences and knowledge with our team as we continue our continuous improvement path and journey to excellence.

## World Quality Day 2022

TOSL Engineering Limited recognizes the importance of quality in all our business processes and continues to work with our employees to encourage a culture of quality consciousness. This culture is one in which employees are aware of the importance of quality in their day-to-day work with the desire to provide the best possible service or product.

TOSL joined other organizations across the world to celebrate World Quality Day. On 28th November 2022 the TOSL Quality Improvement Committee hosted an event for all employees in celebration of quality in the workplace. Our theme was "QUALITY CONSCIOUS - Doing the Right Thing".



As an organization our quality awareness drive is focused on continuous improvement by sensitizing employees through quality awareness sessions, toolbox meetings and training sessions to accomplish a higher level of quality consciousness. During our world quality day, we engaged our employees to participate in quality related fun activities and a Quality Quiz to test their knowledge and understanding of the ISO 9001 standard requirements and TOSL's Quality Management System.



Amongst other rewards, the Quality Team recognized the Most Outstanding Employee for Quality Performance. This reward was given to Mr. Ravi Sookdeo (Manager-Projects & Operations) based on his ability to motivate others to produce high quality work, the support provided to the Quality Department, responsiveness in completing quality documentation within the timeframe specified, quality compliance with work procedures, and supporting continuous improvement.

# HSSE Lessons Learnt

## HSSE

1

### FACTS

- Whilst cutting a belt skirting using a carving knife, the blade slipped and cut through the employee's glove. This resulted in a severe laceration to his right forearm.

2

### IMMEDIATE ACTIONS

- First aid treatment was administered and the injury was cleaned and dressed.
- IP was taken to the hospital for treatment by the Client but was transferred to TOSL's private medical facility.
- IP underwent emergency surgery.

3

### CONSEQUENCES

- Severe laceration to his right forearm extending into his right hand and thumb.
- Restricted Work Incident

4

### LESSONS LEARNT

- Job Safety Analysis did not identify the proper PPE to be used for the task.
- The Procedure for executing the task was not formalized.
- All personnel must be a part of the toolbox meeting.
- Employees should feel comfortable to use STOP work authority.

5

### COMMUNICATIONS

- Communicate incident to all TOSL's work crew on different sites during toolbox meetings.
- Communicate revised JSA and procedure for the task to all personnel involved.
- Reiterate the importance of attending toolbox meetings and STOP work Authority.



# Quality Lessons Learnt



## WHAT HAPPENED

- Upon completion of shop repair and reinstatement of diesel re-circulating pump was found to be defective.
- The pump was removed and after repairs were completed, reinstated and aligned, the pump showed higher than normal amplitude reading and high noise level.



## IMMEDIATE ACTIONS

- The pump was sent to the machine shop for further assessment.



## CONSEQUENCES

- Downtime to the client
- Re-work cost



## LESSONS LEARNT

- When equipment comes to TOSL's shop from client a good practice is to request the failure history report which will guide what checks to be done.
- Communicate findings to client prior to conducting repairs
- Supervisor to review inspection check sheets completed by QA/QC inspector to ensure all checks were completed after repair works prior to release of product.



## COMMUNICATIONS

- Project Lead communicated with the client about the problem and discussed action plan to be taken for resolution.
- Regular and prompt communication with client to ensure customer satisfaction.

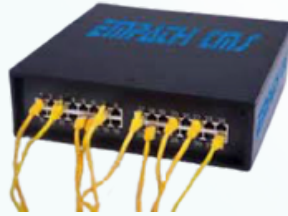
# Product & Service Spotlight

## Framatome



Framatome offers the Electric Motor Performance Analysis & Trending Hardware (EMPATH) system to conveniently measure and analyze electric motor current and voltage to obtain information on critical processes and equipment. EMPATH helps owners detect potential motor problems early, enabling timely repairs and avoiding serious damage.

Framatome's reputable product, EMPATH™, assists owners in identifying potential motor issues in a prompt manner, thereby facilitating prompt repairs and preventing significant damage from occurring. The EMPATH Continuous Monitoring System (ECMS) is designed to automatically test multiple motors from a remote location.



The E-Plug's efficient design comprises an enclosure with external attachment leads. Both current and voltage signals pass through these leads. Inside the enclosure, electronic circuitry processes the signals to prepare them for output to the through-door connector. In short, E-Plug contains everything you need for efficient signal transmission.



### Air-Operated Valve

The UltraCheck "A" System utilizes pressure sensors, displacement transducers, and electrical control signals to quickly determine the operational condition of pneumatically- or hydraulically-actuated linear or quarter-turn valves. With up to 16 channels of input, the UltraCheck "A" system will focus maintenance activities on specific aspects of problem valves to eliminate wasted time and money from unnecessary disassembly and repair efforts.

The UltraCheck "M" system combines sensors for torque and thrust, displacement, current, voltage, and switch signals to quickly assess problems in valve and actuator assemblies or the electric motors that drive them. Additional technology available with this system allows users to collect data at the motor control centre to predict actuator torque and thrust without the need to go to the valve.

## Services

- Electrical Signature Analysis
- Continuous Machine Monitoring with software which can expertly give feedback to the maintenance staff on the plant to make preliminary diagnosis easy and less time consuming than traditional methods
- Valve Diagnostics.

## Applications

- Motors AC or DC (Also motors with Variable Frequency Drives)
- Generators
- Online Continuous monitoring of Motors and Driven Equipment (Via ECMS System)
- Via the Ultracheck System efficiency, measurement and parameter validation for Motor Operated or Air Operated valves



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# Product & Service Spotlight

## ARIEL CORPORATION



WORLD STANDARD  
COMPRESSORS

Ariel is the largest manufacturer of separable reciprocating gas compressors world-wide. Our compressors are utilized by the global energy industry to extract, process, transport, store, and distribute natural gas from the wellhead to the end-user. Since 1966, Ariel has shipped more than 60,000 compressors to our customers around the world. As a world-class manufacturer, Ariel sets the industry standard through expert design and manufacturing, industry-leading research and development, and unmatched customer support.

### PRODUCTS

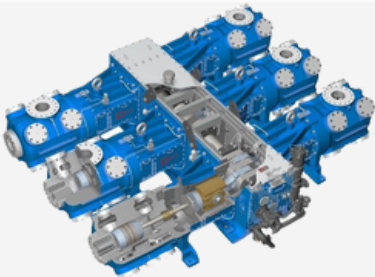
- > Reciprocating Natural Gas Compressors (Structural Skid, Prime Mover, Piping, Pulsation Control, Cooling Systems, Process Valving & Control Systems)
- > Genuine Ariel Spares (Valves, Valve Components, Packings, BTUU, Bearings & Bushings, Lubrication)
- > PLC's, Motors, VFDs, Engines,
- > Pressure Vessels and Piping

### SERVICES

- > Commissioning
- > Preventative Maintenance and Service
- > Predictive Maintenance
- > Overhauls
- > Inspection
- > Reconfiguration

### Reciprocating Natural Gas Compressor

Small Line: BHP Range 85 – 860  
Mid-Line: BHP Range 620 - 5,520  
Large Line: BHP Range 2,070 - 10,000



### Valves

Drawing on nearly 50 years of design and operating experience, Ariel valves and components are available in application-specific designs that are manufactured to exacting standards. Ariel's high-performance, impact resistant materials are easily identifiable. All non-metallic genuine Ariel valve plates are laser etched with the Ariel logo and part number.

### Valve Components

Manufactured to Ariel's exacting engineering specifications, genuine Ariel valves are designed and field-proven to perform in a wide range of operating conditions. Supporting the adaptability of your compressor, genuine Ariel valves are available in thousands of combinations of plate, ring, actuated and concentric valve designs.

### Packings

Built for extended service life, each genuine Ariel packing case is clearly stamped on the packing flange face with the Ariel logo and part number. Compact and durable, genuine Ariel wiper packing cases are stamped with the Ariel logo and part number on the outer wiper cup face. Covering the same wide range of compression applications as Ariel cylinders, packing cases.

### Lubrication

Ariel filters use a tighter media for filtration, allowing for efficient filtration, retaining 98% of particulate at 15 microns and larger.

Check for the Ariel logo on the cap of canister style filter elements. Precision manufacturing techniques ensure critical tolerances are met. Divider valves and baseplates are laser etched with the Ariel logo.

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# Case Study - TOSL Solves Client's Leak with Expertise, Safety and Efficiency



P&O/TOSL, as a company, utilized our extensive knowledge and skills to provide a comprehensive solution to our client. They were faced with a persistent leak on one of their 30" FRP elbows, despite several repair attempts in the past. Our approach was to work in partnership with the client to find a long-lasting solution. We held joint meetings to assess the situation and determine the best course of action. After careful consideration, it was agreed that the best course of action would be to replace the elbow.

The execution of this plan was carried out with precision and efficiency. Our team of experienced professionals worked diligently to complete the job safely, on time, and within budget. We took great care to ensure that the highest quality standards were met, and the result was an exemplary finished product. The elbow has not leaked since the replacement was completed, which is a testament to the effectiveness of our solution.

Safety was a top priority throughout the process, and we are proud to report that there were no accidents or incidents during the job. Our performance exceeded expectations. Our extensive knowledge, combined with our expertise and partnership approach, allowed us to provide a comprehensive and effective solution for our client. We are proud of our work and look forward to continuing to deliver exceptional service to our clients in the future.



Happy New Year from TOSL! As we enter the new year, we are reminded of the importance of reliable and efficient oil services in driving our economy forward. We are committed to providing the highest quality services to our clients and look forward to continuing to support the oil and gas industry in the year ahead. Let's make it a successful one together!


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# THANK YOU

THE HORIZON IS THE OFFICIAL  
QUARTERLY NEWSLETTER OF TOSL  
ENGINEERING LIMITED. IF YOU HAVE  
ANY QUESTIONS OR COMMENTS  
PLEASE FEEL FREE TO CONTACT US

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If you have a concern about TOSL  
you can report it anonymously any  
time, 24/7 in the following ways:

**Toll Free Hotline: +1 800 872-2281**

**OR**

**+1 877 RPT-LINE**

**OR**

**Report Online [www.tosl.com](http://www.tosl.com)**

**username: tosltd**

**Password: reportit**