



### INSIDE THIS ISSUE

ISSUE 34 | Q2 2024

#### 3C METAL ENHANCING GAS STORAGE INFRASTRUCTURE IN FRANCE FOR TERÉGA

In mid-2023, Teréga awarded 3C Metal two engineering, procurement and construction (EPC) contracts to deliver two projects to upgrade Teréga's gas storage center in the Lussagnet commune in southwestern France.

#### MAJOR UPGRADES PERFORMED BY USA TEAM ONBOARD THE NOBLE DISCOVERER SEMI-SUBMERSIBLE PLATFORM

3C Metal USA recently completed a project for Noble Corporation involving rig upgrades onboard the Noble Discoverer semisubmersible platform while it was in transit from Curacao to Colombia.

# 3C METAL BELMET NAMIBIA SUCCESSFULLY INSTALLS BALLAST WATER TREATMENT SYSTEM ON DEEPSEA MIRA

3C Metal Belmet Namibia has completed the installation of a ballast water treatment system (BWTS) on the Deepsea Mira, a semisubmersible vessel operating offshore Namibia.

### **CONTENTS**

03	- A MESSAGE FROM THE PRESIDENT AND CEO OF 3C METAL
04	- 3C METAL ENHANCING GAS STORAGE INFRASTRUCTURE IN FRANCE FOR TERÉGA
05	- 3C METAL UPGRADE WORK FOR SEPPIC PRODUCTION SITE IN FRANCE NEARS COMPLETION
06	- MIDDLE EAST TEAM COMPLETES PROJECT FOR MOBILE MUD SEPARATION PLANT
07	- 3C METAL PERFORMING RIG REACTIVATION AND RIG INTAKE SCOPES ONBOARD VALARIS DS-7 DRILLSHIP
08	- 3C METAL COMPLETES CRITICAL ENGINE LIFTING AND SWAPPING PROJECT ONBOARD JACK-UP RIG, SAPPHIRE DRILLER
09	- 3C METAL'S SAUDI ARABIA-BASED ENTITY DELIVERS 10 BOP TRANSPORT SKIDS FOR ARABIAN DRILLING - 3C METAL'S SAUDI ARABIA TEAM COMPLETE HIGH PRESSURE PIPING SCOPES FOR ARO DRILLING
10	- STANDPIPE MANIFOLD REPLACEMENT SUCCESSFULLY COMPLETED BY 3C METAL ASIA ONBOARD SSV CATARINA
11	- 3C METAL ASIA CONDUCTS REPAIRS ON SCANTECH OFFSHORE'S DNV CONTAINERS - BOP LIFTING FRAMES FABRICATED FOR VELESTO ENERGY IN MALAYSIA
12	- 3C METAL ASIA PERFORMS UPGRADES TO MPD SYSTEM ON JACK-UP RIG IN MALAYSIA
13	- MAJOR UPGRADES PERFORMED BY USA TEAM ONBOARD THE NOBLE DISCOVERER SEMI-SUBMERSIBLE PLATFORM
14	- 3C METAL BELMET NAMIBIA SUCCESSFULLY INSTALLS BALLAST WATER TREATMENT SYSTEM ON DEEPSEA MIRA
15	- 3C METAL BELMET SOUTH AFRICA DELIVERING TWO MAIN FRAMES FOR TWO NEXT-GENERATION CRAWLERS FOR DEBMARINE NAMIBIA
16	- PROJECT TEAM FROM REDSTONE CSP PLANT HELP LOCAL COMMUNITY WITH GRAVE CONCERNS
17	- 3C METAL AND ENTRO INDUSTRIES COMPLETE PROJECT FOR XT CARRIER WITH ADVANCED STACK HANDLING SYSTEM
18	-3C METAL FRANCE AN OFFICIAL CANDIDATE FOR A MASE AWARD
19	- ASIA TEAM CELEBRATES 500,000 MAN-HOUR LTI-FREE SAFETY MILESTONE
20	- TRAINING AND APPRENTICESHIP OPPORTUNITIES IN SOUTH AFRICA - 3C METAL BELMET APPRENTICE SUCCESSFULLY COMPLETES HER BOILERMAKER TRADE TEST
21	- NAMIBIA FIRE EMERGENCY DRILL A SUCCESS
22	- 3C METAL WINS SOBEGI'S SAFETY CHALLENGE - UAE-FRANCE MARITIME DAYS IN ABU DHABI AND DUBAI
23	- 3C METAL COMPETITION WINNER GIVES FRENCH RUGBY A TRY
24	- 3C METAL FRANCE'S COUNTRYSIDE TEAM BUILDING OUTING
25	- NAMIBIAN TEAM PUTS PEDAL TO THE METAL FOR THEIR TEAM BUILDING
26-27	- 3C METAL MIDDLE EAST DEPARTMENT TEAM BUILDING
28	- CONTACT US

#### A MESSAGE FROM 3C METAL'S PRESIDENT AND CEO



As we reach the midpoint of the year, it gives me pleasure to share that 2024 has been highly productive for 3C Metal, reflecting the strong performance of 2023. We appreciate the continued confidence our clients have shown in us, as evidenced by our recent project awards.

One particularly exciting development has been the recent award of an EPC contract by Hydrogène de France (HDF) Energy for part of the development of a green hydrogen fuel cell plant in Bordeaux, France. The contract involves the development of the plant's test area which will be used for checking the performance of highpower fuel cells.

This project represents a significant opportunity to expand our activities in the green hydrogen sector in other locations. HDF Energy is actively involved in Namibia's green hydrogen industry and plans to build a plant in Swakopmund which is close to our facilities in Walvis Bay, Namibia. We anticipate the project award in France will play a pivotal role in accelerating our entry into Namibia's expanding hydrogen market.

Our business development efforts remain focused on Namibia and the surrounding southern region of Africa as well as other key regions including the Middle East and the Asia-Pacific region. Building on our initial successes in these regions, our goal is to make strategic partnerships and investments to enhance our local operations. Since the start of the year, we have increased the presence of senior management in these key regions to help build strong client and stakeholder relationships.

In addition to our external endeavors, we are dedicated to enhancing our internal processes. We are making efforts to improve our HR systems, including consolidating HR functions across the Group, streamlining

onboarding processes and improving training. By prioritizing employee engagement and fostering unity across our Group, we are strengthening our foundation for future growth.

We're committed to health and safety leadership and fostering a culture where safety learning is a priority through close collaboration between entities and sharing best practices. Our directors have been visiting our sites regularly to promote engagement and demonstrate strong safety leadership. This focus has resulted in outstanding safety records this year for our teams in Asia, the Middle East and the USA. Our goal is for all our global sites to meet these high standards to ensure everyone's safety and well-being.

In closing, I want to express my gratitude to our teams for their exceptional hard work and dedication. Your efforts have been instrumental in securing new projects and ensuring our clients' satisfaction. Keep up the good work!

#### Philippe Boy

President and CEO of 3C Metal

## 3C METAL ENHANCING GAS STORAGE INFRASTRUCTURE IN FRANCE FOR TERÉGA

In mid-2023, Teréga awarded 3C Metal two engineering, procurement and construction (EPC) contracts to deliver two projects to upgrade Teréga's gas storage center in the Lussagnet commune in south-western France. The projects, named MEC IZA and BYPASS, involve upgrading existing equipment and disconnecting obsolete systems within the storage center.



3C Metal's local team in France began site operations in October 2023 and the work is scheduled for completion later this year. The scope of work includes the construction of a gas grid and associated pipelines, installation of two new pig launchers, a cutting-edge filtering skid and advanced surface and underground remotely operated vehicles.

The team is supplying approximately 1.5 kilometers of piping (24-inches in diameter) and is performing detailed engineering and civil works, as well as handling the

electrical, instrumentation and automation aspects of the projects. A crucial milestone was reached in May this year with the successful completion of the pressure testing of the piping. Tie-in operations are scheduled for July and October.

3C Metal is looking forward to delivering the final stages of this major upgrade work to enhance Teréga's gas storage infrastructure.





### MEC IZA PIPELINE TO SUSTAINABILITY

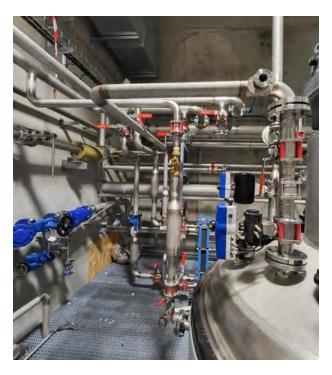
3C Metal has engaged a consultancy to develop a tool to calculate the emissions of the MEC IZA and BYPASS projects in Lussagnet. The study will provide an in-house tool which will be deployed across the Group for future projects and recommendations for reducing on-site emissions.

## 3C METAL UPGRADE WORK FOR SEPPIC PRODUCTION SITE IN FRANCE NEARS COMPLETION

3C Metal France is in the final stages of an 18-month project for Seppic that involves upgrading piping and equipment at their production site, Seppic Lons plant, located near Pau, France. Seppic is a subsidiary of Air Liquide Group that specializes in designing and supplying specialty chemical products for health and wellbeing.

The project involves engineering, manufacturing and onsite installation of two production skids, various equipment and piping as part of the facility's expansion. Divided into two phases, the initial phase is complete, enabling Seppic to start production using the enhanced facilities. The second phase is nearing completion and involves stainless-steel piping upgrades for both production and utility purposes.

3C Metal France has been able to execute this project efficiently thanks to its expertise in piping and its proximity to Seppic's production site. It stands as another successful long-term project delivered by 3C Metal France, involving intricate piping upgrades to industrial facilities in the southwest region of France.







### MIDDLE EAST TEAM COMPLETES PROJECT FOR MOBILE MUD SEPARATION PLANT

With Eneva as the end client, 3C Metal was commissioned by Herrenknecht Vertical GmbH to deliver the design and fabrication of a custom-built mobile mud separation plant destined for a land rig project in Brazil.

This system is comprised of two mixing tanks, a suction tank, a water tank, a trip tank and a separation tank. A self-elevating trailer assembly ensures the mobility of the tanks, which will facilitate transportation to various land drilling sites.

In May, 3C Metal had the pleasure of hosting representatives from Herrenknecht Vertical GmbH and Eneva at its workshop

and yard facility in Dubai, where they witnessed the factory acceptance testing (FAT). This was completed successfully together with project and workshop staff.

The project involved close to 30,000 man-hours of fabrication by the hands of our dedicated workshop artisans.







## 3C METAL PERFORMING RIG REACTIVATION AND RIG INTAKE SCOPES ONBOARD VALARIS DS-7 DRILLSHIP

3C Metal has been commissioned by Valaris to carry out rig reactivation and rig intake scopes for the VALARIS DS-7 ahead of a new drilling campaign offshore West Africa.

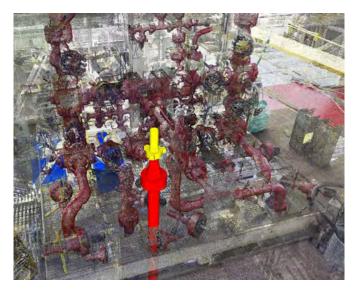
The overall work includes engineering, prefabrication and installation services. The main components of the rig reactivation and upgrade work include the reactivation of the burner boom and the installation of an enhanced electrical system. The scope also includes the integration of different third-party drilling packages (an onboard gravel pack with a high-pressure (HP) 6-inch 15,000 psi line; a solids control system; two different coil tubing packages; an intervention workover control systems (IWOCS) lower completion and two landing string packages; a well test system; brine filtration units; and a wireline package).

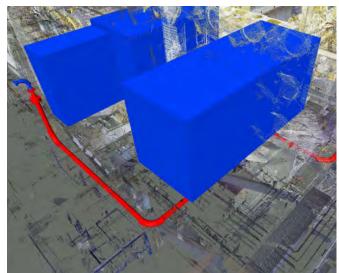
The project kicked off in November 2023 with an initial onsite laser scanning survey to aid the engineering design work and prefabrication. The installation phase began in February 2024 and is expected to be completed in Q3 2024. To date, 3C Metal's team has spent approximately

3000 man-days onboard, operating with an average of 24 personnel, peaking at 47. The installation work was carried out at quayside in Las Palmas, Spain, during sea trials, during transit to Angola, and is continuing now during operations on the block in Angola.

To ensure uninterrupted progress, 3C Metal's installation team has adopted a meticulous rotational schedule, alternating between day shifts and night shifts to complete the work efficiently. Supply and prefabrication requirements have been seamlessly facilitated by 3C Metal's facilities in the UAE and South Africa. Together the facilities have delivered approximately 80 tons of structures for the project.

3C Metal's commitment to innovation and comprehensive approach will support optimal rig performance for the VALARIS DS-7.









## 3C METAL COMPLETES CRITICAL ENGINE LIFTING AND SWAPPING PROJECT ONBOARD JACK-UP RIG, SAPPHIRE DRILLER

3C Metal Middle East recently achieved a significant milestone by successfully completing a critical engine lifting and swapping project onboard the Sapphire Driller jack-up rig. Supporting ADES, 3C Metal's team undertook the task of replacing the rig's old engine with a new one amidst the demanding schedule of well-to-well changeovers.





3C Metal conducted a comprehensive engineering study to formulate precise lifting sequences that adhered to stringent offshore lifting policies and client safety requirements. Additional padeyes were designed and an analysis of the existing bulkheads and frames was conducted to ensure adequate support for the lifting operation. 3C Metal custom-designed a lifting skid to ensure safe transition from a four-point horizontal lift to a two-point vertical lift, with DNV overseeing the engineering package as a third-party reviewer. The lifting operation navigated tight clearances of the hatch to remove the old engine and position the new one within the tight space of the engine room.

Prefabrication took place at 3C Metal's workshop and yard facility in Dubai within a tight timeframe, with DNV overseeing stagewise fabrication to further enhance

production quality. Onboard, 3C Metal's installation team collaborated closely with lifting experts and client safety officers to develop detailed job safety analyses (JSA) and lift safety analyses, leaving no room for oversight.

Despite the challenges posed by the tight space and a demanding schedule, 3C Metal's team executed the project flawlessly within the stipulated timeframe, prioritizing safety and quality throughout. Positive feedback from the client underscores 3C Metal's commitment to meticulous planning, thorough engineering and unwavering safety standards, enabling the team to accomplish this challenging task within a short span of time.





3C Metal Newsletter | Issue 34

## 3C METAL'S SAUDI ARABIA-BASED ENTITY DELIVERS 10 BOP TRANSPORT SKIDS FOR ARABIAN DRILLING

3C Metal's team in Saudi Arabia has successfully completed a project to deliver ten blowout preventer (BOP) transport skids for Arabian Drilling for their latest contract in the Kingdom. The engineering, design and fabrication were completed in-house.

The skids are designed to transport fully-stacked 13-5/8" 10K and 15K BOPs along with their respective wing valves (choke -and-kill loops). The design was done so that once the skids are lifted into the intended position in the substructure, the two-off hydraulic cylinders on the skid will be actuated by a hydraulic power unit to allow the upper skid to pivot from horizontal to vertical position. The BOP stack will then be unfastened from its test stump, which will be lifted to the well center. This allows for a safe and hands-free rig-up of the

BOP compared to the traditional fixed skid requiring tilting via a crane lift.

3C Metal extends its gratitude to Arabian Drilling for the award of this project. The local team looks forward to continuing to foster its relationships with valued clients in Saudi Arabia and strengthening its services for the country's energy sector.





## 3C METAL'S SAUDI ARABIA TEAM COMPLETE HIGH PRESSURE PIPING SCOPES FOR ARO DRILLING

ARO Drilling recently awarded multiple high pressure (HP) piping projects to 3C Metal's subsidiary in Saudi Arabia. The projects were secured through 3C Metal's local agent, the Arabian Establishment for Trade and Shipping (AET).

The scopes involved the design, supply and fabrication of API 16C certified choke-and-kill lines. The local team conducted an offshore 3D laser scanning survey onboard ARO's drilling vessels followed by design work by 3C Metal's in-house engineers. Procurement of HP material and prefabrication scopes were carried out at 3C Metal's workshop in the Middle East which retains API 16C licensing. These HP lines for the choke-and-kill manifold were fully designed and prefabricated in 3C Metal's workshop, eliminating the need for field welds, which is prohibited as per the standards.

3C Metal has been heavily involved in well-control piping upgrades for clients in Saudi Arabia, carried out in line with the requirements of Saudi Aramco's Well Control Manual. 3C Metal is proud to deliver its high-quality services to ARO Drilling again, having performed work on close to half of the company's fleet. This recent work is yet another demonstration of 3C Metal's expertise in the application of HP scopes for drilling vessels.



3C Metal Newsletter | Issue 34

## STANDPIPE MANIFOLD REPLACEMENT SUCCESSFULLY COMPLETED BY 3C METAL ASIA ONBOARD SSV CATARINA

3C Metal Asia has recently completed the replacement of the standpipe manifold for a semisubmersible rig, the SSV Catarina. The project was carried out for Universal Energy Resources, the rig's contractor, while it was stationed in Batam, Indonesia.

The project involved several phases including equipment procurement, on-site fabrication, installation and final piping connections. During the disassembly and rigup phase, the existing standpipe manifold was carefully disassembled. New mud gate valves and Grayloc hubs were procured and supplied for seamless replacement. On-site welding of hubs and valves was conducted, along with non-destructive testing procedures, including magnetic particle inspection and radiographic testing. Additionally, post-weld heat treatment ensured joint integrity.

For the fabrication of the new manifold, hub-valves were fabricated using DEMCO BW valves and machined to precise dimensions to match standard API 6A gate valves. The subsequent installation and integration phase involved the meticulous installation of the new valves in strict accordance with the original equipment manufacturer (OEM) specifications. The standpipe manifold was then reinstalled on the SSV Catarina, followed by rigorous pressure testing to meet the standards and specifications of the client and the rig owner.

The replacement of the standpipe manifold was executed safely and within the client's budget. This achievement stands as a testament to 3C Metal's unwavering commitment to excellence and proficiency in the realm of maritime engineering, fabrication and installation.









3C Metal Newsletter | Issue 34

## 3C METAL ASIA CONDUCTS REPAIRS ON SCANTECH OFFSHORE'S DNV CONTAINERS

ScanTech Offshore enlisted the expertise of 3C Metal Asia to conduct repairs on more than 50 DNV-certified containers used to house their high pressure (HP) compressors.

The project was carried out at ScanTech Offshore's base within the Langsat OSC public bonded warehouse facilities located in Johor Bahru, Malaysia, conveniently situated close to 3C Metal Asia's workshop.

From October 2023 to March 2024, 3C Metal Asia provided manpower (welders and fitters), raw materials and essential tools necessary for repairing the containers, each 20-foot in

length, certified to the DNV 2.7-1 standard and optimized for housing HP compressors.

The repair scope was executed under the supervision of the client, in collaboration with their subcontractors and workshop team throughout the duration of the project. The work was completed seamlessly without any disruption to the client's schedule and with zero safety incidents.







#### **BOP LIFTING FRAMES FABRICATED FOR VELESTO ENERGY IN MALAYSIA**

Velesto Energy recently commissioned 3C Metal Asia to design and fabricate two blowout preventer (BOP) lifting frames for their jack-up drilling rigs NAGA 6 and NAGA 2.

The complete scope of this project involved a site survey, design work and fabrication of the frames. A 3D laser scanning survey was conducted on the rigs in Kemaman Port, Malaysia. This aided 3C Metal's design and allowed the engineering team to conduct clash checks. The design and preparation of engineering documents for fabrication were approved by ABS.

The BOP lifting frames for NAGA 6 and NAGA 2 were almost identical with only minor differences. The notable difference was in the working load variations, where NAGA 6 had a working load of 200 tons, and NAGA 2 had a working load of 150 tons.

The fabrication of the lifting frames was completed in 3C Metal Asia's workshop in Malaysia. The workshop team successfully welded high-thickness plates and machining with tight dimensional tolerances. Following the fabrication work, the team conducted load testing using hydraulic jacks and a load test jig.

Upon completion, the custom-built BOP lifting frames were delivered to Velesto Energy for installation. These new lifting frames will allow for the BOPs to be lifted safely and efficiently into position whenever required during drilling operations.





3C Metal Newsletter | Issue 34

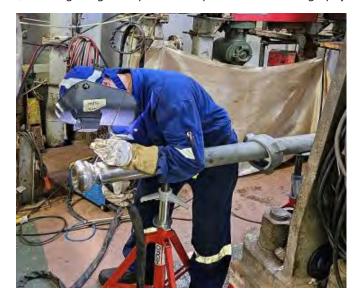
### 3C METAL ASIA PERFORMS UPGRADES TO MPD SYSTEM ON JACK-UP RIG IN MALAYSIA

3C Metal Asia was commissioned to design, fabricate and install pressurized-mud-cap-drilling (PMCD) annular lines on a client's jack-up rig, while it was in Malaysia. The annular lines were integrated with the vessel's managed pressure drilling (MPD) system, optimizing handling and operations and improving safety, accessibility and efficiency.



Prior to fabrication, engineering studies and pressure drop calculations were conducted to validate the design. These assessments utilized client-provided data concerning flow rates, pressures and temperatures. 3C Metal's expert team engineered an optimized pipeline route, conducted clash checks, ergonomic evaluations, verified pipe supports and generated detailed drawings to ensure precision.

Prefabrication took place at 3C Metal's workshop in Johor, Malaysia. The prefabrication scopes involved the structural components, pipe spools and supports as well as the supply of hammer unions, target elbows and high-pressure (HP) piping materials. The team conducted HP welding, post-weld heat treatment, non-destructive testing (NDT) (including magnetic particle inspection and radiography





testing), painting, packing and shipment of materials.

During installation, the team ensured the proper placement of new lines and structural supports in accordance with approved designs. Comprehensive pressure testing was conducted on the newly assembled pipeline before the commissioning of client equipment.

Despite the demanding timeline, the project was completed to the client's satisfaction. The team demobilized just in time before the rig transitioned to the well location, minimizing disruptions to the client's schedule.



3C Metal Newsletter | Issue 34

## MAJOR UPGRADES PERFORMED BY USA TEAM ONBOARD THE NOBLE DISCOVERER SEMI-SUBMERSIBLE PLATFORM

3C Metal USA recently completed a project for Noble Corporation involving rig upgrades onboard the Noble Discoverer semi-submersible platform while it was in transit from Curacao to Colombia.

In cooperation with Noble Corporation, 3C Metal USA managed all aspects of the project in-house, from engineering and prefabrication to onsite installation and decommissioning. The project kicked off in March with the initial 3D laser scanning survey to aid engineering and prefabrication. The main piping scope of work involved the prefabrication and installation required for well test lines. This included placing new valves on the aft side of the rig and connecting pipes and flanges by the king post areas. The piping runs concluded with hammer union fittings by the well test area for any rig connections.

Another major scope was for onsite fabrication and installation of piping runs to modify the choke-and-kill manifold on the drill floor. Double isolation valves were installed in the choke manifold, which required piping

alterations and new sets of flanges. 3C Metal performed the installation of the new valves and performed the pressure testing of the lines.

The structural scopes consisted of the onsite fabrication and installation of a platform for the desilter equipment in the mud pump room. Piping tie-ins to the desilter's fluid inlet, fluid outlet, drain and HVAC (heating, ventilation and air conditioning) connections were also completed as a part of this scope. 3C Metal assisted with securing the new burner booms on both sides of the vessel, as well as installing wider replacement boom rests suitable for the new structures.

The project was successfully completed in May within the project timeline and with zero safety incidents.







## 3C METAL BELMET NAMIBIA SUCCESSFULLY INSTALLS BALLAST WATER TREATMENT SYSTEM ON DEEPSEA MIRA

3C Metal Belmet Namibia has completed the installation of a ballast water treatment system (BWTS) on the Deepsea Mira, a semi-submersible vessel operating offshore Namibia.

The team manufactured and installed all the structural, piping, equipment and electrical components for the project, based on the design and engineering of the client, Odfjell Technology. The structural fabrication took place at 3C Metal Belmet's workshop in Walvis Bay, Namibia, while fabrication of piping was carried out at 3C Metal Belmet's workshop in Cape Town, South Africa. Cinco Engineering, partly owned by 3C Metal Belmet and based in Cape Town, provided additional fabrication support. Various materials, tools, equipment were also supplied and supported by the 3C Metal Group. Actom Energy, a long-term electrical partner, contributed technical expertise to facilitate electrical integration onboard the vessel.

The installation, comprising two treatment units (one for each side of the vessel), was finalized in early May. Subsequent certification by DNV confirmed the compliance of Deepsea Mira's new BWTS, enabling the vessel to set sail for Congo to initiate its new contract.

3C Metal Belmet would like to thank Odfjell Technology for their invaluable support and collaboration throughout the project. Through this collaborative effort, the project was executed safely and seamlessly, ensuring full compliance with Class and IMO regulations.









3C Metal Newsletter | Issue 34

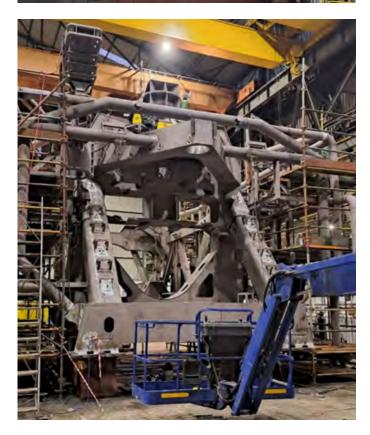
## 3C METAL BELMET SOUTH AFRICA DELIVERING TWO MAIN FRAMES FOR TWO NEXT-GENERATION CRAWLERS FOR DEBMARINE NAMIBIA

3C Metal Belmet has been commissioned to fabricate main frames for two new next-generation crawlers (NGC) - the largest and most robust crawlers that will enter the Debmarine Namibia fleet. The crawlers will be launched from a diamond recovery vessel and will scour the ocean floor for marine diamonds.

Both crawler main frames require approximately 106 tons of steelwork fabrication, followed by outfitting of grating and handrailing. The fabrication work includes furnace post weld heat treatment (PWHT) as well as localized PWHT after joining the large sub-assemblies. Machining is also required at various stages during fabrication. The team is using advanced measurement and alignment technology in conjunction with line boring machinery to obtain tolerances of less than 0.1mm over a length of 4.8 meters between bores.

The last of the sub-assemblies to be joined onto the main frames are being fitted and welded in Cape Town Harbour at the Cinco Engineering facility (partly owned by 3C Metal Belmet). The first main frame has been delivered to the client's facility. The second is in progress with delivery

Metal Belmet). The first main frame has been delivered to the client's facility. The second is in progress with delivery



scheduled for September 2024.

In addition to the two crawler main frames, a transport frame weighing 26 tons is being fabricated to enable loading and offloading of the fully assembled crawlers onto a self-propelled modular transporter. The transport frame has been fabricated and trial assembled. Painting is currently underway.

3C Metal Belmet South Africa takes pride in its contribution to the development of advanced marine diamond recovery technology for Debmarine Namibia. The craftsmanship and precision involved in fabricating the main frames for the next-generation crawlers highlight the team's commitment to excellence and innovation.





## PROJECT TEAM FROM REDSTONE CSP PLANT HELP LOCAL COMMUNITY WITH GRAVE CONCERNS

3C Metal's South African subsidiary, 3C Metal Belmet, is nearing the end of a 14-month contract to carry out the steam generation system (SGS) installation for the Redstone 100MW Concentrated Solar Power (CSP) Project in South Africa's Northern Cape. The project is part of the South African Renewable Energy Independent Power Producer (REIPP) Procurement Program.

Throughout the project, the team was deeply involved in the development of the local community. One of the most significant community initiatives was the donation of fencing for a local cemetery in the Groenwater community which is situated approximately 5km northwest of the Redstone CSP Plant.

The fencing donation was a vital necessity as it addressed the issue of livestock damaging the graves. 3C Metal Belmet repurposed fencing from its project site, valued at R48,000 (\$US2606), to enclose the cemetery and prevent further damage. 3C Metal Belmet's Construction Manager for the Redstone Project, Jacobus Reynecke, met with Community Liaison Officer, Patience Leshope (top right image: pictured center) and Community Representative, Gloria Kgoronyane (pictured right), to officially hand over the fencing material.

Other initiatives included the donation of roof sheeting to the value of R19,300.00 (\$US1048), from 3C Metal Belmet's workshop to a local church.

The project owners, ACWA, also requested assistance with a charity golf day for Lime Acres Animal Shelter - a volunteer, non-profit organisation in Lime Acres, 25km southeast of the Redstone CSP Plant. 3C Metal Belmet sponsored vouchers to the value of R2,000.00 (\$US110).

3C Metal Belmet had approximately 100 employees living in the onsite project accommodation. Once they left, all the bedding was washed and donated to local schools, hostels and children's homes.

3C Metal remains committed to supporting charitable initiatives and giving back to the community.









3C Metal Newsletter | Issue 34

## 3C METAL AND ENTRO INDUSTRIES COMPLETE PROJECT FOR XT CARRIER WITH ADVANCED STACK HANDLING SYSTEM

3C Metal, in collaboration with Entro Industries, has developed an offshore X-mas tree (XT) carrier with an advanced XT handling system for an ultra-deepwater drillship.

This cutting-edge technology features an elevator mechanism specifically designed to navigate under drill floor clearance restrictions, promising to enhance safety, efficiency and cost-effectiveness in offshore drilling operations. Fabrication was carried out in 3C Metal's workshop facilities in Cape Town, South Africa, before shipment to Brazil for installation by 3C Metal's team.

Pre-installation rig modifications took place onboard to accommodate the new equipment, after which lifting operations were conducted to place the new XT carrier onto the rig. This technical lifting procedure was developed by 3C Metal's engineering team making use of dedicated

installation aids to transfer between single and tandem lifts of the 70-ton structure to the moonpool rail. Following the lift, integration of the XT carrier equipment with the rig system and hydraulics was completed, ending with a full function test of all XT carrier features with the client.

The installation and commissioning process was carried out in May 2024 and was executed within a three-week timeframe. The efficiency in which this project was carried out is testament to the robust design and accurate fabrication done prior to the installation phase by 3C Metal and Entro Industries.







### 3C METAL FRANCE AN OFFICIAL CANDIDATE FOR A MASE AWARD

3C Metal is proud to announce that its entity, 3C Metal France, is an official candidate for the 2024 MASE Award for the best health, safety and environment (HSE) innovation for its unique safety nut design.

3C Metal's safety nut was developed to improve working conditions for pipe-fitters and to prevent potential injuries. The safety nut fastens the hydraulic torque wrench securely to the stud bolt, positioning it between the counter-bolt and the safety nut. Given that hydraulic torque wrenches often exceed 10kg in weight, the safety nut effectively supports the device's weight, significantly mitigating the risks associated with manual handling. This system has been successfully utilized on one of 3C Metal's recent projects in France which required 480 stud bolts and nuts and 200 man-hours for bolting and tightening.

The MASE Awards is an initiative by the Company Safety Improvement Manual (Manuel d'Amélioration Sécurité des Entreprises - MASE) management system to promote good HSE practices in the companies within its network. The awards are open to all MASE members and are held every two years regionally in France. With the entry into the competition, 3C Metal France solidified its position as a leader in HSE management.

The safety nut has been selected as one of the top three best proposals and has moved into the final stage of the awards, where MASE members will vote for the winner. The winner will be announced at the award ceremony in December this year.







3C Metal Newsletter | Issue 34

## ASIA TEAM CELEBRATES 500,000 MAN-HOUR LTI-FREE SAFETY MILESTONE

In April, 3C Metal's Malaysia-based entity, 3C Metal Asia, achieved an excellent safety milestone – 500,000 man-hours with zero lost time injuries (LTIs) across all operations. The milestone includes figures from deployment and offshore operations as well as the office and workshop.

On Friday 3 May, the team gathered to celebrate the safety milestone with a team lunch, congratulatory speeches and a few safety games and activities. Team members received gifts, including a t-shirt, tumbler, cap and bag, as a token of appreciation for their efforts in maintaining a safe work environment.

At 3C Metal, safety is the top priority, and this milestone underscores its commitment to ensuring a safe work environment for all its employees.



#### TRAINING AND APPRENTICESHIP OPPORTUNITIES IN SOUTH AFRICA

As the appointment of new employees continues to grow steadily across the Group, 3C Metal is enhancing its in-house training and development opportunities. In South Africa, 3C Metal Belmet's specialized training center is prioritizing the enhancement of its in-house capacity and offering more opportunities to employees and apprentices.

3C Metal Belmet's training centre currently offers merSETA (the Manufacturing, Engineering and Related Services Sector Education and Training Authority) accredited skills programs as well as other non-accredited programs. These include training for boilermakers, welders and fitters and turner trades.

3C Metal Belmet also offers apprentices the opportunity to gain the practical experience required for their program before they apply for their trade test exam. Their internal training is mainly scheduled through the 3C Metal Belmet training centre with on-the-job mentoring and coaching done by their immediate supervisors.

Moving forward, the training centre is looking to obtain accreditation with the Quality Council for Trades and Occupations (QCTO) and merSETA and will include training events for post-weld heat treatment, pressure testing and other operational needs.



3C Metal Belmet's current apprentices

## 3C METAL BELMET APPRENTICE SUCCESSFULLY COMPLETES HER BOILERMAKER TRADE TEST

Aviwe Kolanisi is one of 3C Metal Belmet's first female apprentices to become a certified boilermaker. Aviwe joined 3C Metal Belmet in July 2020 and successfully completed her trade test on 22 May 2024.

The trade tests evaluate apprentices' knowledge, skills and competence in artisan occupations. Apprenticeship candidates require three to four years of practical and theoretical experience before applying for a trade test.

The boilermaking trade test is a two-day examination, in which there is a theoretical and practical demonstration of knowledge and skill. On successfully passing the test, the apprentices are awarded a trade test certificate, also known as a Red Seal certificate, which is necessary for employment and career advancement.

Including Aviwe, 3C Metal Belmet currently has five female boilermaker apprentices from Northlink College. Aviwe's apprenticeship is fully funded by 3C Metal Belmet and the others are funded through South Africa's National Skills Fund Bursaries.

3C Metal Belmet would like to congratulate Aviwe on her achievement and hopes it will help to inspire more women to pursue careers in manufacturing.



### NAMIBIA FIRE EMERGENCY DRILL A SUCCESS

In mid-June, the team from 3C Metal Belmet Namibia took proactive steps towards enhancing workplace safety by taking part in a comprehensive fire emergency drill. This initiative was not just a routine exercise but a significant effort to ensure that employees are well-prepared to handle emergencies effectively.



Willie van Zyl, from Westfire Training and Consulting, conducted the training at 3C Metal Belmet's facility in Walvis Bay, Namibia. Westfire Training and Consulting deliver training programs that are designed to mitigate risks and create secure working environments.

The fire emergency drill conducted by 3C Metal Belmet Namibia and facilitated by Willie van Zyl was hailed as a resounding success. It provided employees with practical



knowledge and hands-on experience, equipping them to respond swiftly and decisively in the event of a fire or other emergencies.

3C Metal Group and its entities remain committed to maintaining the highest standards of safety by investing in regular training exercises and partnering with training experts.





3C Metal Newsletter | Issue 34

#### **3C METAL WINS INAUGURAL SAFETY CHALLENGE BY SOBEGI**

3C Metal client, Sobegi, recently conducted a six-week safety campaign aimed at promoting and recognizing best practices among HSE teams across their sites in France. One safety challenge was set for each week of the campaign.

3C Metal's team in France won the first of the six challenges for their use of the stop card system during site maintenance operations for Sobegi. Along with the five other winners, 3C Metal was presented with a Sobegi safety challenge trophy

at the end of the campaign.

This HSE recognition highlights 3C Metal's dedication to safety excellence and ensuring a secure work environment.



### **UAE-FRANCE MARITIME DAYS IN ABU DHABI AND DUBAI**

From 22-23 April, 3C Metal proudly participated in the UAE-France Maritime Days 2024 event hosted by Business France.

The event kicked off in Dubai and continued in Abu Dhabi on the second day. 3C Metal Middle East General Manager, Jordan Laurans, attended the event to showcase 3C Metal's extensive marine retrofit capabilities. The two-day event was part of the overall "French Maritime Tour" which brought together a delegation of leading French maritime companies to tour the UAE and Kuwait. This tour focused on strengthening alliances and exploring new projects in the UAE and Kuwait's port and maritime sectors.

As a French company with engineering and fabrication facilities in the Middle East and more than two decades of experience serving heavy industries in the region, 3C Metal is uniquely positioned to lend support to these sectors.



### **3C METAL COMPETITION WINNER GIVES FRENCH RUGBY A TRY**

Throughout the 2023 France Rugby World Cup, 3C Metal invited employees to take part in an online predictor game with an excellent prize up for grabs.

Out of 136 employees who joined the 3C Metal pool, it was Wian Van Schalkwyk, a South African national from the Namibian office, who tackled the competition head on and topped the leaderboard. He won a round-trip for two to visit 3C Metal's headquarters in Sauvelade, France, and tickets to watch a Section Paloise Top 14 rugby game at Stade du Hameau in the nearby city of Pau.

In early May, Wian and his wife made the trip to France and on Saturday 11 May, they watched Pau's local team, Section Paloise, beat Oyonnax Rugby, 39-17. They were joined

by several representatives from 3C Metal's France office including President and CEO, Philippe Boy.

3C Metal proudly supports Section Paloise and throughout this Top 14 season, the 3C Metal logo has been on display at Stade du Hameau. Thanks to 3C Metal's backing, Wian and the 3C Metal entourage were given access to the changing room before the game, access to the field after the game and a visit to the changing room with players and staff after the game.









### 3C METAL FRANCE'S COUNTRYSIDE TEAM BUILDING OUTING

In late June, 3C Metal France organized a team-building outing in the French countryside. Held at a picturesque country house surrounded by greenery, the event featured music, dancing, wooden games and French bowling.

Colleagues enjoyed lively conversations and indulged in delicious French cuisine served under a canopy. Thankfully, the weather held up, making it a relaxing break from office and workshop life.

The afternoon was a refreshing opportunity for team members to bond outside of work, strengthening relationships and fostering a positive team spirit.









3C Metal Newsletter | Issue 34

## NAMIBIAN TEAM PUTS PEDAL TO THE METAL FOR THEIR TEAM BUILDING

Excitement revved up in the Namibian office as they geared up for an adrenaline-fueled adventure at the Go-Kart Track Swakopmund.

On Saturday 20 April, the office from Walvis Bay came together for their annual team-building event. Go-Kart Track Swakopmund was selected as the team building venue. The

track is set against the backdrop of Swakopmund's stunning landscapes, offering a unique opportunity to unwind, connect and embrace friendly competition.











### 3C METAL MIDDLE EAST DEPARTMENT TEAM BUILDING

#### **Hitting Team Building Targets**

Dubai's admin and accounts team are used to hitting their targets but this year's team building gave it a whole new meaning. The team spent the afternoon at the Arabian oasis, Bab Al Shams Resort, to take part in an archery session. Keeping their eyes on the prize, there were certainly no drawbacks to this team building event. The session was followed by an evening feast at the resort's Al Hadheerah restaurant, where they enjoyed open-air dining and live entertainment rooted in ancient Arabic cultures.









#### From Whiteboards to White Sands

Away from their desks, Dubai's engineering team headed to the beach to partake in some quirky team activities. Letting their inner child take over, the group played their best, winning some medals in the process. The beach bash continued with dinner at Riva Beach Club where the group winded down and had more fun.









#### Stay Sharp, Stay Strong, Repeat to Win

This year, the Middle East's project and production teams joined hands and went on a grand adventure at Dubai's TEPfactor. This indoor arena offered a unique gaming experience for the group as they were put through a series of seriously out-of-the-box challenges. It definitely took some brain and brawn to get through them and emerge victorious!



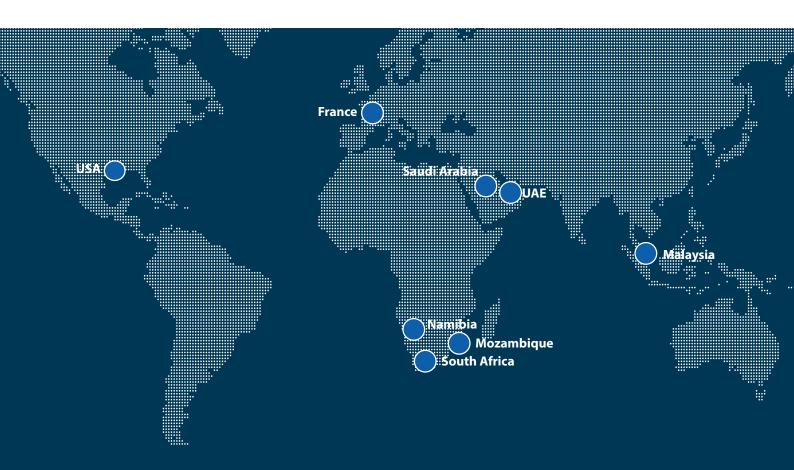












#### **FRANCE**

3C Metal/3C Supply 3210 Route de Larvath 64150 Sauvelade France

T:+33 (0)5 59 67 64 67 E: office@3cmetal.com E: office@3csupply.com

#### **SOUTH AFRICA**

3C Metal Belmet/ 3C Subsea 9A Electron Street, Triangle Farm Stikland 7530 Bellville South Africa T: +27 (0)21 949 63 46

E: southafrica-office@3cmetal.com

#### MALAYSIA

3C Metal
No.2 Jalan Sagai 2,
Sime Darby Business Park,
Taman Pasir Putih,
81700 Pasir Gudang, Johor,
Malaysia
T: +60 (0)7 2520 321

T: +60 (0)7 2520 321 E: asia-office@3cmetal.com

#### **MOZAMBIQUE**

3C Metal Belmet
Maputo
Mozambique
T: +27 (0)21 949 63 46
E: mozambique-office@3cmetal.com

#### **UAE**

3C Metal Plot No. MO 0629 Jebel Ali Free Zone (JAFZA) P.O. Box 261998 Dubai United Arab Emirates T: +971 (0)4 883 0682 F: +971 (0)4 883 0683

E: me-office@3cmetal.com

#### **NAMIBIA**

3C Metal Belmet 29 Second Street East Industrial Area 9000 Walvis Bay Namibia T: +264 64 274 500 E: namibia-office@3cmetal.com

#### **USA**

3C Metal
11983 Nat Steel Suite 11983-A
Houston
TX 77041
USA
T: +1 713 808 9651
F: +1 832 831 3487
E: usa-office@3cmetal.com

#### **SAUDI ARABIA**

3C Metal
Arabian Steel Fabrication and
Pipe Factory
Street 67, (Makkah Road),
Cross 116
Dammam
Saudi Arabia
T: +966 (0) 13 814 3048
E: ksa-office@3cmetal.com