

ENGINEERING PARTNER ALL OVER THE WORLD

EFES MARİNE



www.marineindustry.net



EFES MARİNE
ENDÜSTRİYEL MÜHENDİSLİK
İNŞAAT SANAYİ TİCARET LTD. ŞTİ






Our Expertise

- I. **Consultancy & Port Engineering & Reporting**
- II. **Shipyards Selection & Tendering**
- III. **Dry Dock Planning & Management & Assistance**
- IV. **Coating & Structural Inspections**
- V. **Engineering Calculations**
- VI. **Blasting & Coating & Cleaning Execution (in Turkey)**
- VII. **BWTS Prefabrication & 3D Scanning**



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Reference Companies

 <p>AMERICAN EAGLE TANKERS</p>	<p>10 Project 2014 – 2018 Shipyard Coating – Repair Consultancy</p>	<p>Abu Shahjalal asjalal@aet-tankers.com</p>
 <p>MINERVA MARINE Inc.</p>	<p>9 Project 2018 - 2019 Shipyard Coating Turkey – Danmark Inspections</p>	<p>Vasilis Tatakis tatakis@minervamarine.com</p>
 <p>REEDEREI JENS & WALLER</p>	<p>7 Project 2014 – 2018 Turnkey Ship Repair – Floating Repair – Coating</p>	<p>Ulf Jens ulf.jens@reederei-jenswaller.de</p>
 <p>DFDS GROUP</p>	<p>2 Project 2017 – 2018 Ballast Tank Coating</p>	<p>Burak Lok bulok@dfds.com</p>
 <p>RMK MARINE - SHIPYARD</p>	<p>2 Project – 2019 BWTS Design, 3D Scanning</p>	<p>Rustem EKICI rusteme@rmkmarine.com.tr</p>

What Do We Offer

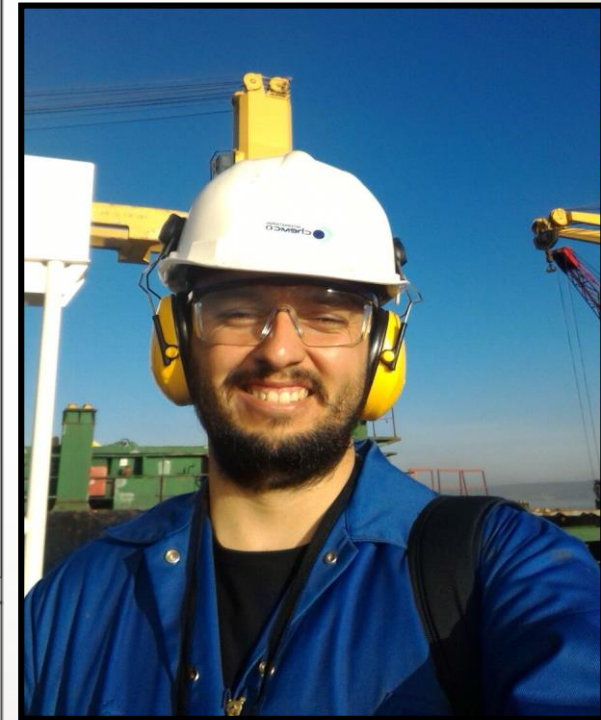
Repair Project Planning & Port Engineering Assistance Services

M&I ENGINEERING SOLUTIONS									
ID	Task Name	Resource Names	Duration	Start	Finish	Sun 3 May	Tue 5 May	Thu 7 May	
1	MV *....." TOPSIDE TANK COATING PLAN m²		70 hrs	4 May 08:00	7 May 06:00	0	0	0	0
2	No... PS Ballast Tank Coating Renewal with Chemco RS 500P & RA 500M - 1000 m²		62 hrs	4 May 08:00	6 May 22:00				
3	No... PS Mud & Loose Scale Cleaning of Tank	Cleaner[4]	4 hrs	4 May 08:00	4 May 12:00				
4	No... PS Staging	Cleaner[2]	2 hrs	4 May 12:00	4 May 14:00				
5	No... PS Mechanical Surface Preparation	Mechanical Cl	4 hrs	4 May 14:00	4 May 18:00				
6	No... PS Removal of Loose Scales and Coatings From The Surface With Waterjet (~750 bar)	Waterjet App.[2]	12 hrs	4 May 18:00	5 May 06:00				
7	No... PS Removal of the Water From the Tank	Cleaner[3]	4 hrs	5 May 06:00	5 May 10:00				
8	No... PS First Coat Paint Application (RS 500P Rust & Wet Tolerant 100% VS Class Approved Epoxy Coating)	Paint Applicator[4]	6 hrs	5 May 10:00	5 May 16:00				
9	No... PS Stripe Coat (RA 500M - Wet tolerant - VS 100% Class Approved Glassflake Epoxy Coating)	Paint Applicator[4]	6 hrs	5 May 16:00	5 May 22:00				
10	No... PS Final Coat (RA 500M - Glassflake Epoxy)	Paint Applicator[4]	8 hrs	5 May 22:00	6 May 06:00				
11	No... PS Restaging and Tank Cleaning	Cleaner[4]	4 hrs	6 May 12:00	6 May 16:00				
12	No... PS Ballasting of the Tank	Captain	2 hrs	6 May 20:00	6 May 22:00				
13	No... STBD Ballast Tank Coating Renewal with Chemco RS 500P & RA 500M - 1000 m²		66 hrs	4 May 12:00	7 May 06:00				
14	No... STBD Mud & Loose Scale Cleaning of Tank	Cleaner[2]	8 hrs	4 May 12:00	4 May 20:00				
15	No... STBD Staging	Cleaner[2]	2 hrs	4 May 20:00	4 May 22:00				
16	No... STBD Mechanical Surface Preparation	Mechanical Cl	4 hrs	4 May 22:00	5 May 02:00				
17	No... STBD Removal of Loose Scales and Coatings From The Surface With Waterjet (750 bar)	Waterjet App.[2]	12 hrs	5 May 02:00	5 May 14:00				
18	No... STBD Removal of the Water from the tank	Cleaner[3]	4 hrs	5 May 14:00	5 May 18:00				
19	No... STBD First Coat Paint Application (RS 500P Rust & Wet Tolerant 100% VS Class Approved Epoxy Coating)	Paint Applicator[4]	6 hrs	5 May 18:00	6 May 00:00				
20	No... STBD Stripe Coat (RA 500M - Wet tolerant - VS 100% Class Approved Glassflake Epoxy Coating)	Paint Applicator[4]	6 hrs	6 May 00:00	6 May 06:00				
21	No... STBD Final Coat (RA 500M - Glassflake Epoxy)	Paint Applicator[4]	8 hrs	6 May 06:00	6 May 14:00				
22	No... STBD Restaging and Tank Cleaning	Cleaner[4]	4 hrs	6 May 20:00	7 May 00:00				
23	No... STBD Ballasting of the Tank	Captain	2 hrs	7 May 04:00	7 May 06:00				

Task		External Milestone		Manual Summary Rollup	
Split		Inactive Task		Manual Summary	
Milestone		Inactive Milestone		Start-only	
Summary		Inactive Summary		Finish-only	
Project Summary		Manual Task		Deadline	
External Tasks		Duration-only		Progress	

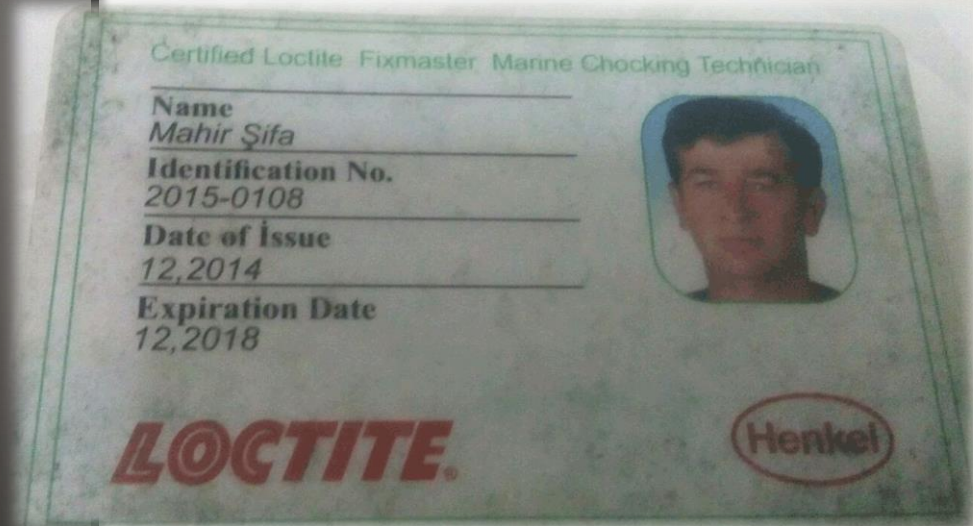
Project: MV *....."

Page 1 - Faruk AVCIOGLU - solution@marineindustry.net



What Do We Offer

- Engineering Company (Ship Repair)
 - Ship Repair Projects – Pre-Purchasing Inspections
 - Naval Architecture & Stability Calculations
 - Chockfast Orange – Loctite Application (In Turkey only)

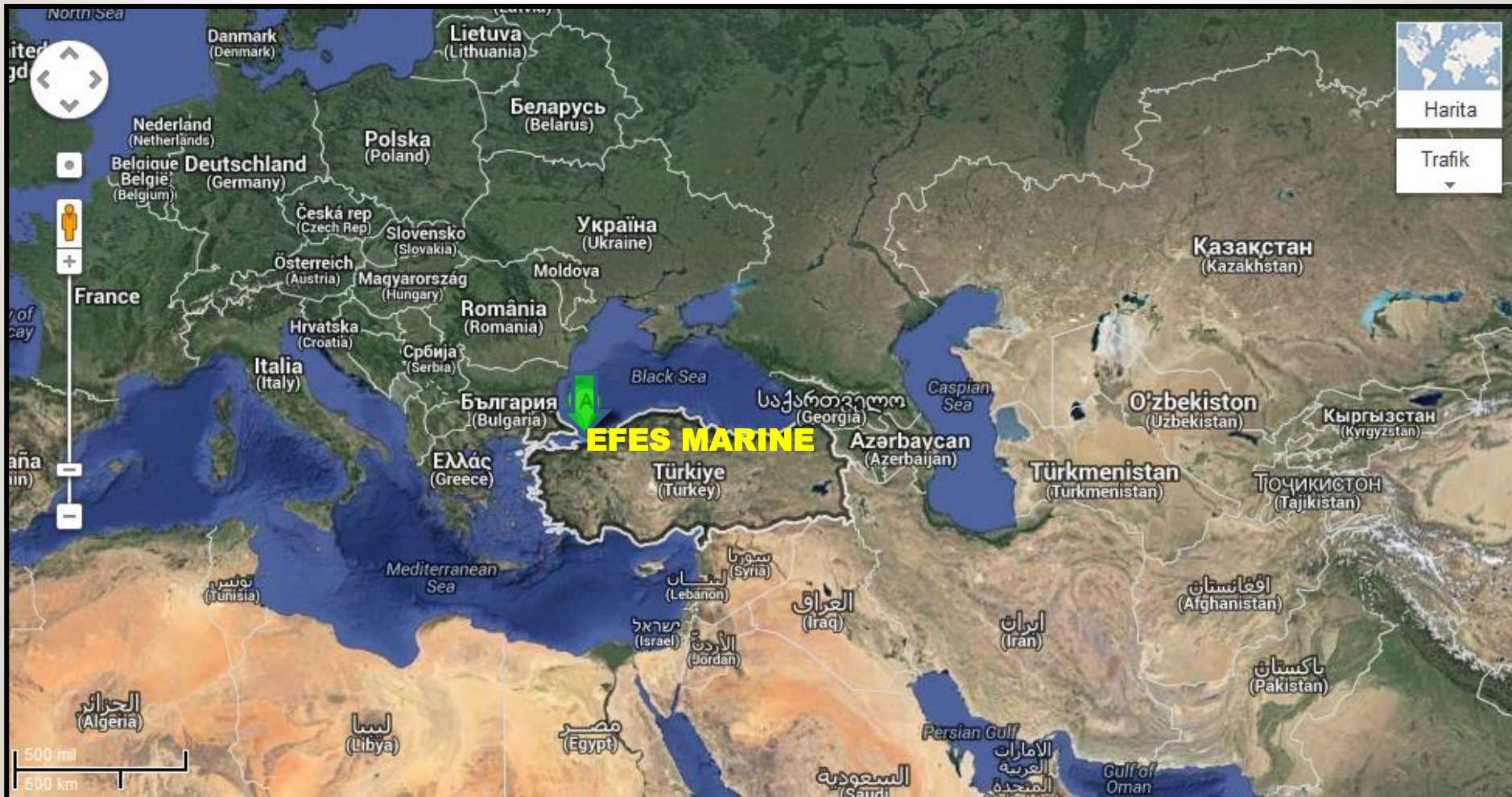


Our Team

TECHNICAL TEAM

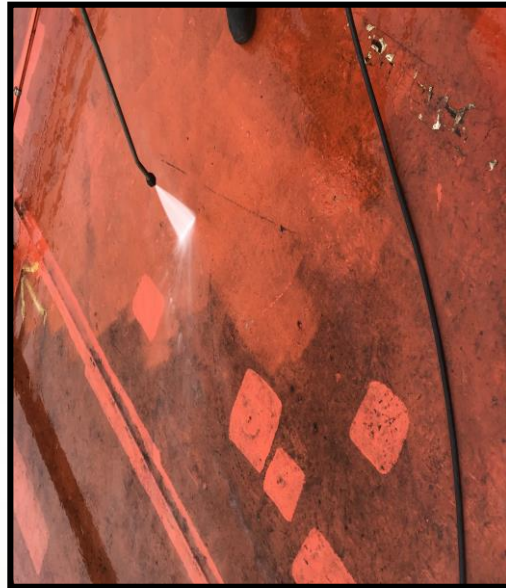
No:	Title	Duty	Working Concept
1.	Naval Arc. & Marine Eng.	Surveyor, Inspector, Project M. - PMP (#2)	Repair Projects, Coating Applications, Consultancy
2.	Naval Arc.	Design, Project E. (#3)	BWTS, Coating Applications Scrubber Design (Just started).
3.	Workshop Team (TR)	Workers (#6) (Pipe #350 Corporate Partner)	Workshop (Blasting & Painting) Pipe Works
4.	Application Team	Workers (#8 - #40)	Project Based (Tank Cleaning, Coating, Piping etc.) (Can be increased)
5.	Mechanical Team	Technician (#6)	Waterjet Repairs, Chocking compounds

Our Office



Some of Projects Done

➤ Deck Coating in Anchorage – Eagle Tucson



~ 30 – 48 hours all main deck washing and painting can be completed.

* MT EAGLE TUCSON – 30 hours ~14.000 m² washing and 1 final coat application. (Make up application after docking).

Some of Projects Done

➤ Tank Inspections – Danmark (Skagen) – Minerva Zoe

MINERVA MARINE Inc.

Today 14 January

Time	Forecast	Temp.	Precipitation	Wind
08	☾	2°		19 ↘
09	☀	2°		19 ↘
10	☀	2°		17 ↘
11	☀	2°		16 ↘
12	☀	3°		16 ↘
13	☀	3°		15 ↘
14	☀	3°		15 ↘
15	☀	3°		16 ↘
16	☀	3°		16 ↘
17	☾	3°		16 ↘
18	☾	3°		17 ↘
19	☾	3°		17 ↘

[Sky](#)
[Table](#)
[Graph](#)
[Map](#)

Some of Projects Done

➤ Cement Carrier Inspection – Haiti – MV Turbocem



Pre-purchasing inspection completed in 36 hours included engine room, cargo operations, tanks and accommodation.

Some of Projects Done

- Blasting and Painting – MV TRANSPORTER (Livestock Carrier)



SA2 grid blasting and 2 coat painting of decks – **15.500 m² (6 deck) in 9 days**



Some of Projects Done

- Ballast Tank Coating – 1000 bars WJ – Minerva Helen



Local washing and painting application carried out.

Some of Projects Done

- Ballast Tank Coating – 1000 bars WJ – Minerva Concert



Local washing and painting application carried out.



Some of Projects Done

➤ Anchorage Repairs – Rope Access Painting – MV NADA



Some of Projects Done

- Cleaning Services For Vessels – MT Valle Bianca



Some of Projects Done

➤ Cleaning Services For Vessels



MT TESEO - 308 m³ solid sludge cleaning
BSM – Feb.2017 – 8 days at anchorage

TANK CLEANING WORKS - WORKDO



VESSEL NAME	MT TESEO	DATE		
TANK NAME	Slp Port	WORK SCOPE	Sludge Cleaning	

GENERAL INFORMATION

Item	Description	Comment	Item	Description	Comment
Initial Training			Initial Inspection		
Washing			Lightening		
Prewash			Ventilation		
Salt Water			Air Temperature °C		
Use Chemical			Sea Temperature °C		
Salt Water			Slops m ³		
Fresh Water			Tank Volume m ³		

DONE: D NOT DONE: ND NO NEEDED: NN NOT APPLICABLE: N/A

WORKDONE

Description	Unit	Quantity
Collection of cumulated sludge inside the tank with plastic bags and transferring the bags from tank top to main deck level.	m ³	-54,50-

NOTES / COMMENTS:

Handling and damage (Zerued) during sludge removal

MT TESEO
C.A. 2004-03-07
REG. NO. 7
NT 2008 M
DWT: 2000

VESEL





**BERNHARD SCHULTE
SHIPMANAGEMENT**

SAI
CLEANING TEAM

Some of Projects Done

- Bulk Carrier – Container – Turnkey Yard Repair – MV PAUL



Note: Photos are related with same company vessel (MV TINGHIR) and MV PAGADDER tank coating application.

Some of Projects Done

- RoRo Vessel – Ballast Tank Coating – Un Karadeniz



Some of Projects Done

2.000 m² - Waterjetting & Mechanical

Height: 58 m. – Nitrogen Tank Coating Application



Some of Projects Done

- Blasting Workshop (Repairs And Applications – Stand By)



Some of Projects Done

- Working in Both Marine & Industrial Projects
 - Floor Epoxy Application,
 - Non Skid - Composit Deck Application,
 - Industrial System Coating Application.



We Represent

REPRESENTATIVE & TECHNICAL SERVICE OF



INTERNATIONAL
chemco
PROTECTIVE COATINGS

Class Approved Tank Coating Solutions

www.chemcoint.com

We Represent

- Solvent free epoxy system,
- **Wet & rust tolerant** system (surface tolerant),
- **Class approved** system,
- Can apply on hull, cargo tanks holds, fresh water tanks,
- Scrubber System, BWTS coatings.
- Steam Line etc.



www.chemcoint.com

We Represent

REPRESENTATIVE & TECHNICAL SERVICE OF



Waterjetting Equipments Nozzle Manufacturer

www.mvt.ch

➤ Coating Application Company – Consultancy

- Blasting & Painting Works With Our Own Equipments (in Turkey),
 - 132 Atlas Copco Compressor – 2 pcs.,
 - 3 pcs 75 KW Vacuum Cleaner, Silos.
 - Dehumidifier – 2 pcs.
 - Paint Pumps - 12 pcs. Graco Wiwa
 - Tank Heater – 3 pcs,



➤ Coating Application Company (in Turkey)

➤ Waterjetting & Painting

- 8 pcs. 1400 bars – 60 liter (Tritan) - Diesel,
- 2 pcs. 1000 bars (Combijet) - Electrical,
- 1 pc. 800 bars,
- 1 pc. 750 bars Woma,
- 3 pcs. 400 – 500 bars,
- 1 pc. 250 bars hot water wash.



➤ Tank Cleaning

➤ Ex-proof Systems

- 35 pcs. Ex-proof headlamps
- 4 pcs. Ex-proof crane,
- 12 pcs. pump ,
- 8 pcs. Ex-proof ventilation fan,
- 8 pcs. Ex-proof projector,
- IBC tanks etc..



PERMIT TO WORK FOR ENTRY INTO ENCLOSED/CONFINED SPACE



VESSEL NAME		DATE/HOURS	
IMO NUMBER		LOCATION	
VESSEL MASTER		WORK DEFINITION	
RESPONSIBLE PERSON FROM CLEANING TEAM		CHIEF OFFICER	

Checklist Items:	Confirm	Comment
1 Space thoroughly ventilated		
Atmosphere tested and found safe		
2 Oxygen % vol (21%)		
Hydrocarbon % LFL (less than 1%)		
Toxic gases ppm (less than 50% OEL of the specific gas)		
3 Space secured for entry		
4 Rescue and resuscitation entrance		
5 Testing equipment available for regular checks (Gases Detectors etc.)		
6 Responsible person in attendance at entrance		
7 Communication arrangements made between person at entrance and those entering		
8 Access and illumination adequate		
9 All equipment to be used is of appropriate type (Exproof etc.)		
10 Personal protective equipment to be used (Boiler Suits, Helmet etc.)		
11 Hard hat, safety harness as necessary		
12 When breathing apparatus is being used		
(i) Familiarity of user with apparatus is confirmed		
(ii) Apparatus has been tested and found to be satisfactory		

NOTES / COMMENTS:

.....

.....

.....

VESSEL
SIGNATURE

CLEANING TEAM
SIGNATURE

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3D Scanning, Designing, Prefabrication – BWTS

MODS	QTY	UNITS	DESCRIPTION	BUILD	MYRL NO.	AC
1	239	MM	114.3x3.3 Dışsız Çelik Boru S37.2 Class III	139		
2	191	MM	114.3x3.3 Dışsız Çelik Boru S37.2 Class III	91		
3	1	PCS	Slip on Flange DN100 PN16 S37.2 Class III	7		
4	1	PCS	Elbow 90 seamless 1.5D 114.3x6.02 S37.2 Class III	305		
5	1	PCS	Slip on Flange DN100 PN16 S37.2 Class III	7		

3	0.0	LOOSE	E 4:	CONNECTION	FEED	ROT	BEND
4	0.0	LOOSE	E 4:	FEED	BENDING DATA		
5	0.0	LOOSE	E 4:	FEED	BENDING DATA		

POS	ROT	INCL	TURN	REMARKS	FEED	ROT	BEND

JOINT PRP	HEAT TRMT	SHOP PRS	WELD	TREATMENT

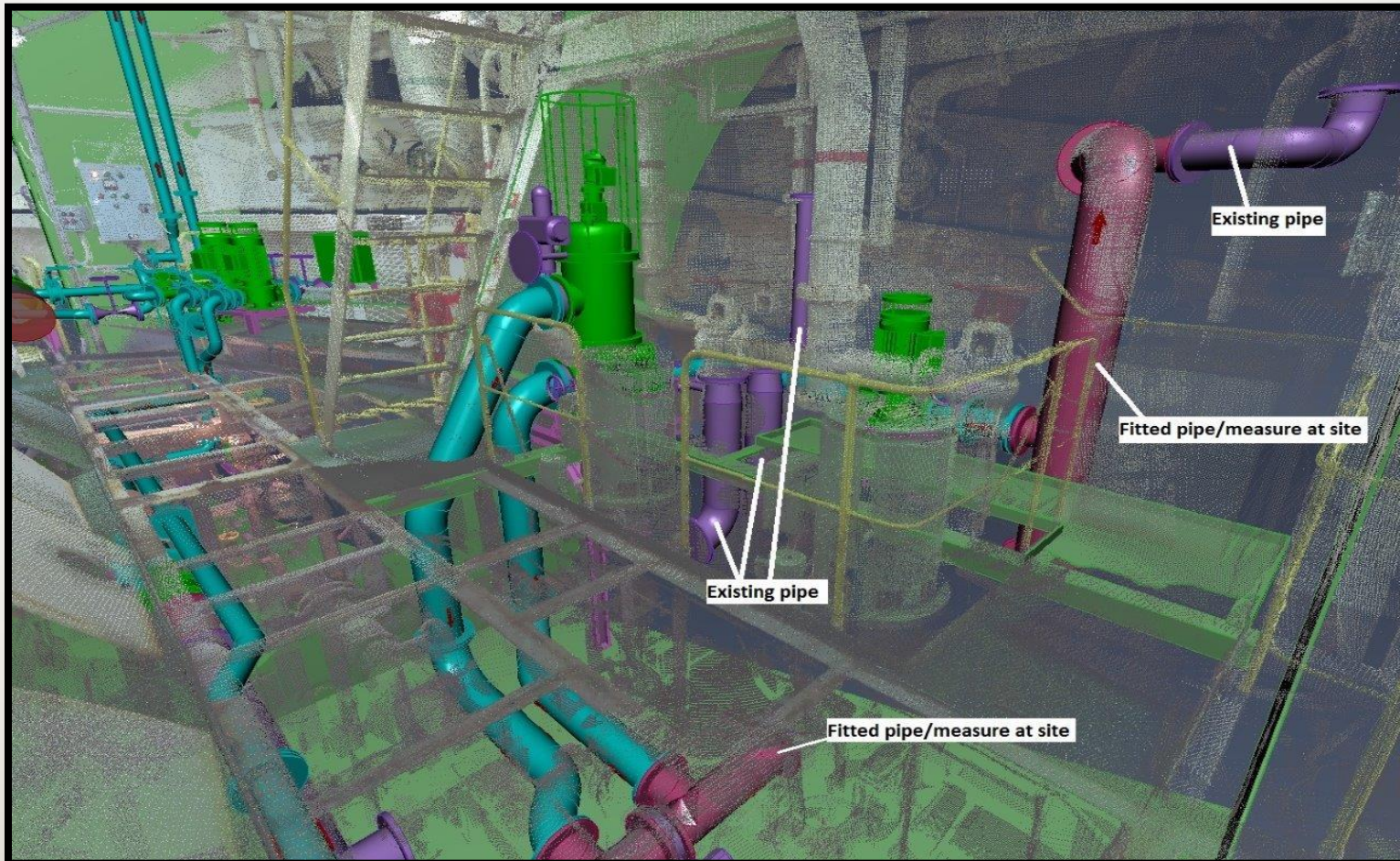
NOTES	DRAWN BY	RAD	WEIGHT	DATE
	FARUK AVCIÖĞÜ		17	18-12-29

DESCRIPTION	SHIP	SKETCH NAME
T-NEVBAHAR	T-NEVBAHAR	NEV-BWM33-006

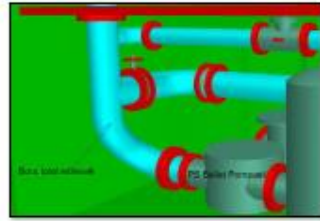
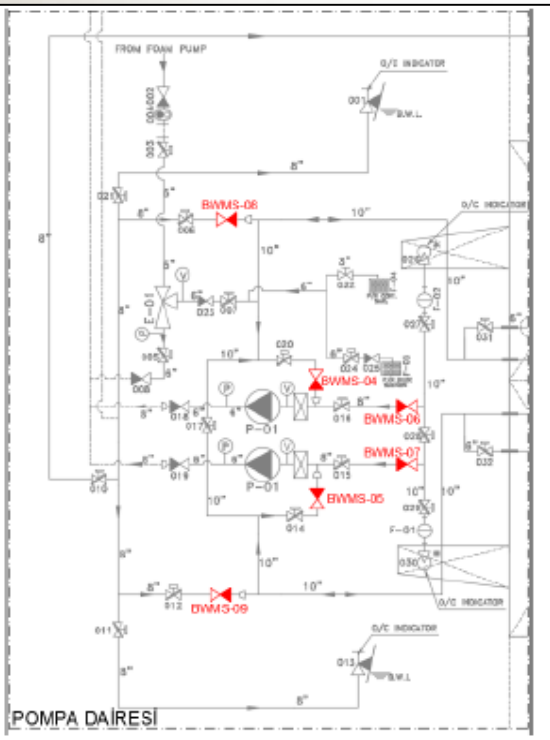
REV.	ACKLAMA	TASIRI	OKAY

Project		T-NEVBAHAR	
Dwg Name		BWM3 SPOOL TAKIP	
Dwg No	200-003-001	Date	15.01.2019
Prepared by	Faruk Avciöğlü	Scale	1/20
Checked by	Faruk Avciöğlü	Paper Size	A4
		Rev	0

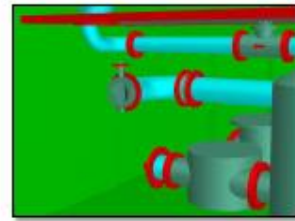
3D Scanning, Designing, Prefabrication – BWTS



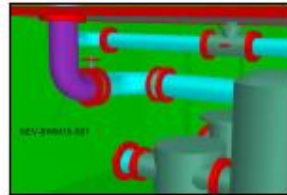
3D Scanning, Designing, Prefabrication – BWTS



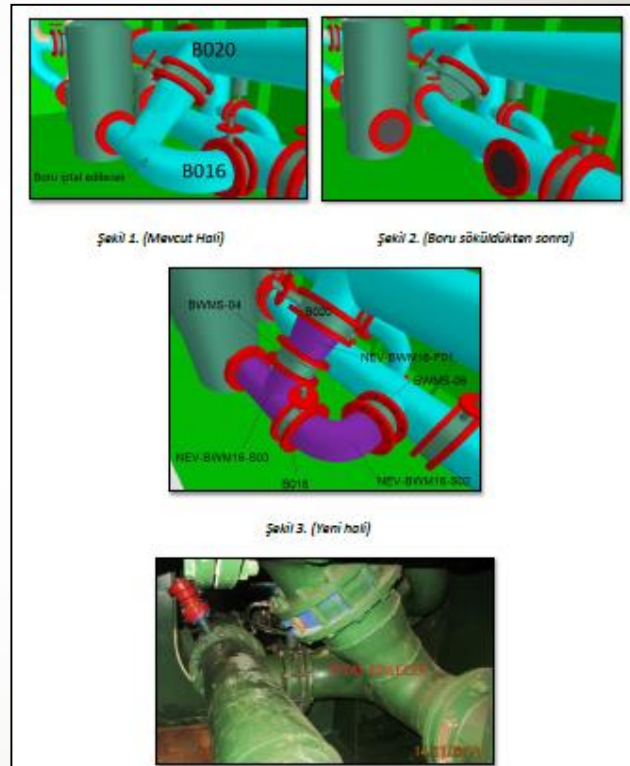
Şekil 11. (Mevcut hali)



Şekil 12. (Boru söküldükten sonra)



Şekil 13. (Yeni hali)



Prefabrication Workshop

**CORPORATE
PARTNER**



DNV·GL
Certificate No: _____

**WELDING WORKSHOP
APPROVAL CERTIFICATE**

This is to certify:
That

**Tuzla / Istanbul, Turkey
0000**

Is approved for
Welding

In accordance with
**DNV GL rules for classification – Ships
DNV GL class programme DNVGL-CP-0352 – Approval of manufacturers – Manufacture of
welded products – Welding workshop**

has been approved for the following range of applications
Piping System

and the following particulars
**Manufacturer(s) approved by this certificate are accepted to deliver according to
DNV GL, DNV and GL Rules.**

Welding supervisor: _____ **Coskun Albayrak**
Deputy welding supervisor: _____ **Mutlu Yavuz**

Issued at **Hamburg** on **2018-07-04**
This Certificate is valid until **2021-07-03**.
DNV GL local station: **Istanbul**

Approval Engineer: **Gordon Stieb**

**Thorsten Lohmann
Head of Section**

Form code: WELD 201 Revision: 2018-12 www.dnvgl.com Page 1 of 1
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IIW
**INTERNATIONAL
INSTITUTE OF WELDING**

Having met the Education and Training requirements of IIW Guideline 'International Welding Engineer' and by examination having satisfied the requirements of the Examination Board of the IIW Authorized National Body

Name: **Mr. GÜNDOĞDU Umut**
Date of birth: **December 31st 1979**
CI No: 1423822256

is hereby awarded the diploma of
INTERNATIONAL WELDING ENGINEER

Date: **May 6th 2020**
Diploma No: **FR IWE 00697**

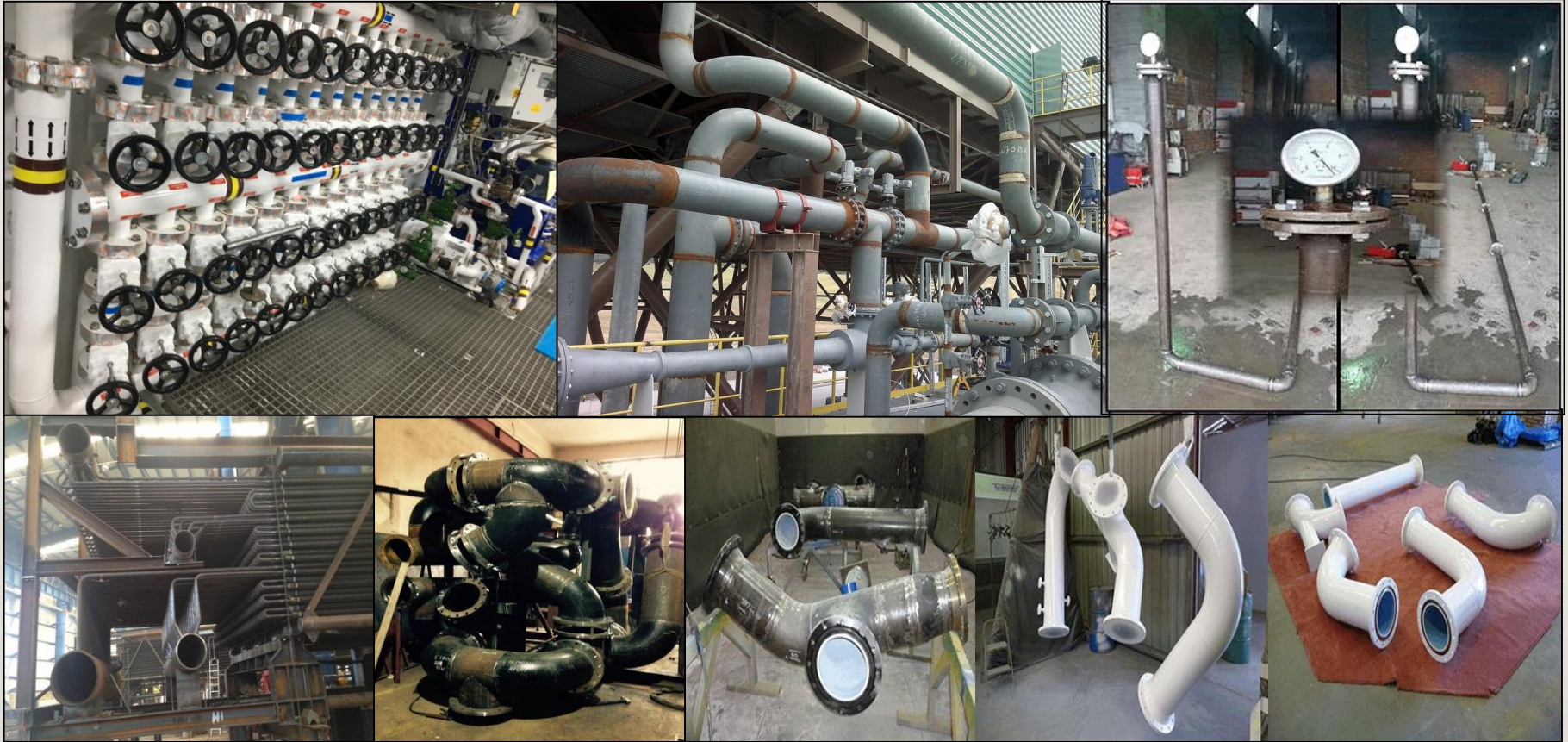
IIW **IIW**

This diploma is valid in all countries according to the IIW rules and regulations.

Total Area	2300 m² Workshop (3 Hold) 800 m² Office (New Facility)
Fabrications (Pipe& Outfitting)	Stainless Steel Pipe (700 m²) - Steel Pipe (1600 m²)
Crane Capacity	10 Ton x 4 pcs. + 7 Ton x 2 pcs.
Approvals	DNV Workshop - BV
Engineering Skills	Level 3 UTM, Welding Engineer, Design, 3D Scanning, Coating Inspectors
Workers	~350 pipe welder – fitter – forman

Note: New workshop will be fully open around 15.08.2019 due to facility equipment transfers.

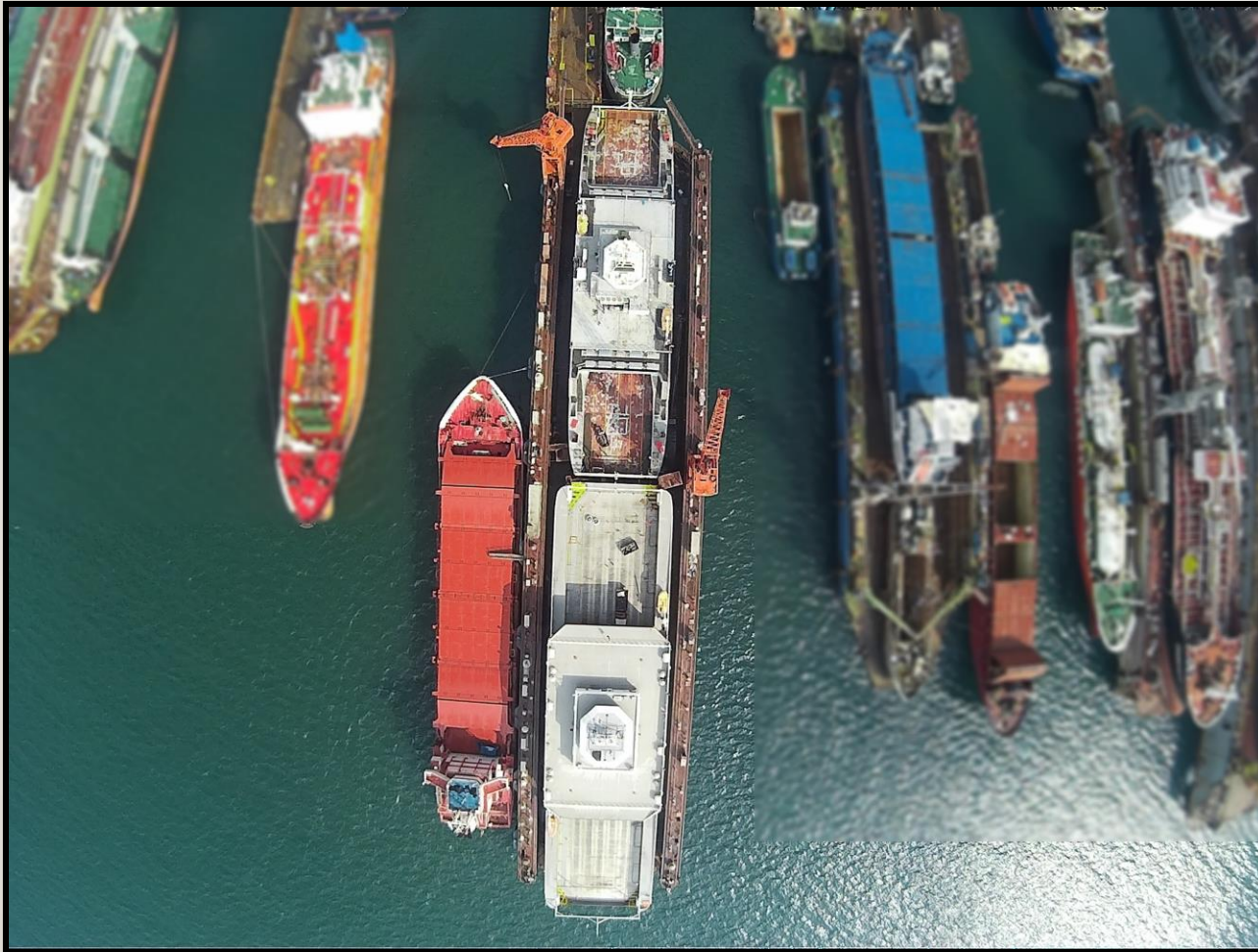
Prefabrication Workshop – Installation



- Workshop fabrications as per izometric drawings,
- Onboard installations and class deliveries for new building – repair – conversion projects

GISAN SHIPYARD - TUZLA

**CORPORATE
PARTNER**



ABS Quality Evaluations Certificate Of Conformance

This is to certify that the Environment Management System of
GISAN GEMİ İNŞA SAN. VE TİC. A.Ş.
Özel Tersaneler Bölgesi No:23
İstanbul
Tuzla
Turkey

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:
ISO 14001:2004
The Environment Management System is applicable to:

THE PROVISION OF SHIP BUILDING AND SHIP MAINTENANCE SERVICES

Certificate No: 45916
Original Certification Date: 14 November 2011
Effective Date: 28 January 2015
Expiration Date: 13 November 2017
Revision Date: 28 January 2015.

Alex Weissberg
Alex Weissberg, President



Validity of this certificate is based on the periodic audits of the management system defined by the above scope and is contingent upon prompt, written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.
ABS Quality Evaluations, Inc. 18415 Northchase Drive, Houston, TX 77060, U.S.A.
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.
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GISAN SHIPYARD - TUZLA

**CORPORATE
PARTNER**

Shipyards Name	GISAN SHIPYARD	Location	Tuzla
Proficiency	Repair & Conversions	Grid Blasting Capacity	?? nozzles DD
Engineering Skills and Vision	8/10	Waterjetting	Up to 1000 bars – Rental project
Docking Capacity	156x26 m Floating D.	Painting	2 coat/day in Floating docks
Speciality	Container Bulk Carrier Tankers	Web	www.gisanshipyard.com
		Economy/Payments	8/10
Major Customers	...		

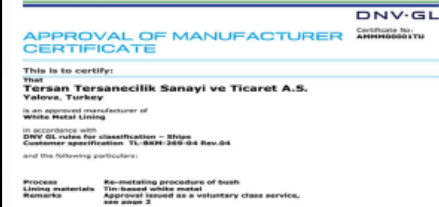
GISAN SHIPYARD - TUZLA

**CORPORATE
PARTNER**

Shipyard Name	GISAN SHIPYARD	Nearby Hotels Accomodation	In 5 km range 5 hotel Estimated drive time: 15 minutes
Mechanical Works Workshop	7	Pipe Works	8.5
Special Repairs Safety For General	8 8	Steel Works	8.5
Ballast Water / Scrubber Works	8	Final Bill Workdones	As per actual values
Design Capacity	8	Quotation / Prices	~5% less than average
On time deliveries	9	Speed & Quality for Tank Coating	8
Permissions to outside workshops	As per agreement, can be	Airport Deliveries	20 min. to Sabiha 90 min. Atatürk

TERSAN SHIPYARD – TUZLA – YALOVA

CORPORATE
PARTNER



TERSAN SHIPYARD – TUZLA – YALOVA

**CORPORATE
PARTNER**

Shipyards Name	Tersan Shipyards	Location	Yalova
Proficiency	Repair & Conversions	Grid Blasting Capacity	50 nozzles/Dock
Engineering Skills and Vision	8/10	Waterjetting	Water jetting
Docking Capacity	130x22 m FD 180x29 m FD 282x51 m FD	Painting	2 coat/day in Floating docks
Speciality	Container Bulk Carrier Tankers	Web	www.tersanshipyard.com
		Economy/Payments	8.5/10
Major Customers		

TERSAN SHIPYARD – TUZLA – YALOVA

Shipyard Name	Tersan Shipyards	Nearby Hotels Accomodation	In 10 km range 1 hotel Estimated drive time: 30 – 75 minutes
Mechanical Works Workshop	9.5	Pipe Works	9
Special Repairs Safety For General	8.5 7.5	Steel Works	9
Ballast Water / Scrubber Works	8	Final Bill Workdones	???
Design Capacity	8.5	Quotation / Prices	~ 5% Cheaper
On time deliveries	8	Speed & Quality for Tank Coating	8
Permissions to outside workshops	As per agreement, can be	Airport Deliveries	50 min. to Sabiha 180 min. Atatürk

TURNKEY SOLUTION PARTNER

