



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

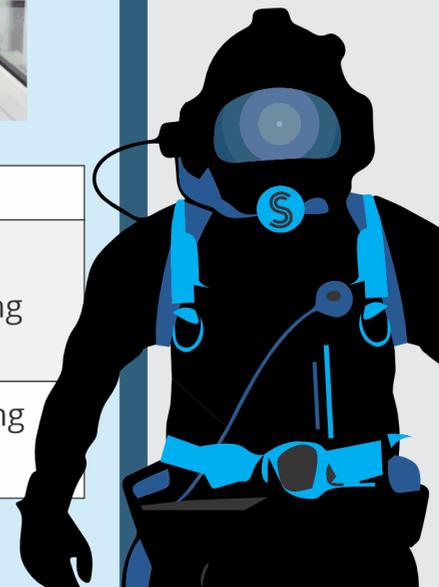
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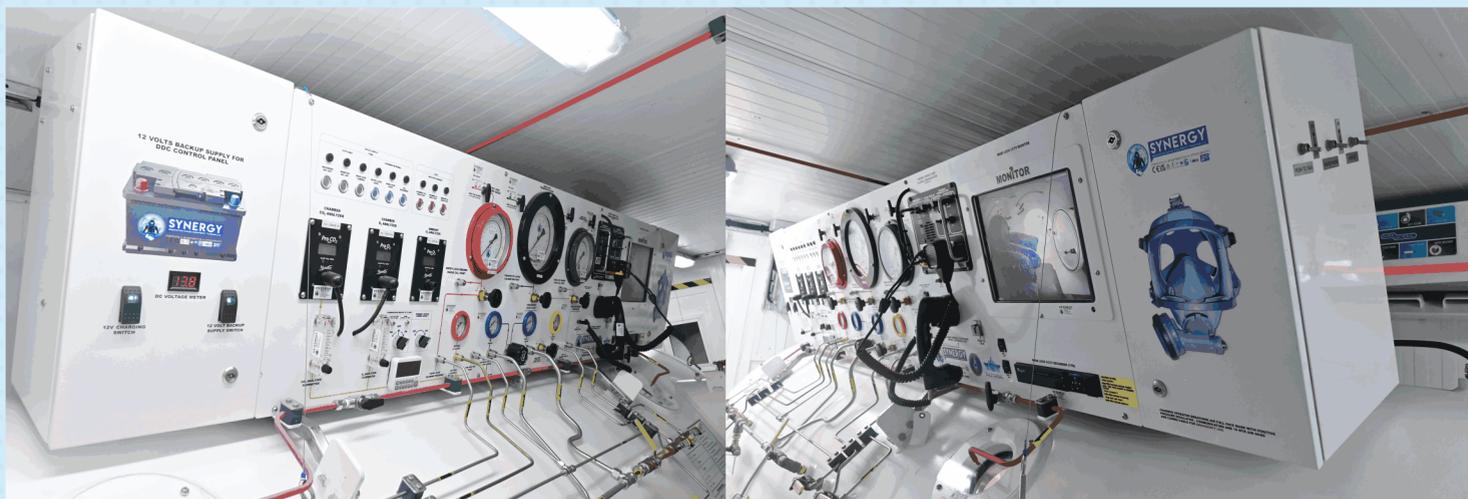
DIVING DECOMPRESSION CHAMBER WITH 3 DIVER MIX GAS PANEL IN 20FT CONTAINER



IMCA Code:	Description:
IMCA D018:	Code of Practice for the Initial and Periodic Examination, Testing, and Certification of Diving Plant and Equipment
IMCA D037:	DESIGN for Surface Oriented (Mixed) Gas Diving Systems



DIVING DECOMPRESSION CHAMBER WITH 3 DIVER MIX GAS PANEL IN 20FT CONTAINER



Feature:	Description:
Diving Chamber	Installed in a 20FT DNV Offshore Container with complete internal and external fit-out
Chamber Control Panel	Includes O ₂ /CO ₂ analyzers and ambient atmosphere O ₂ analyzer
UPS System	Provided for chamber with integrated charger
Breathing Mask	Chamber operator full-face mask with positive pressure regulator
Emergency Communication	10-meter air hose with comms for emergency use
CCTV System	Main Lock CCTV Recorder (1TB) and Main Lock CCTV Monitor
Power Stabilizer	Single Phase Servo Stabilizer – 5 kVA
Fire Safety	Fire Extinguisher included
Safety Valves	Pressure Relief Valves for chamber protection
Penetration Plates	Installed for sealed and safe incoming/outgoing air and gas lines

CHAMBER ENTRY LOCK WITH ALL FITOUT AS BELOW



Sr.	Part Number	Description	Qty
1	SY-SP-V	Viewport	1
2	SY-350M-01	Amron avox hyperbaric bibs, dual hose ,350 msw rated	2
3	SY-7140-01	Amron led hyperbaric light unit	1
4	SY-3114	Amron internal talk back speaker	1
5	SY-SPT-550RC	Sound powered phone	1
6		Stainless Steel foldable seats	2
7		Aluminum checkered floor plate	1
8		Drain valve connected with flexible hoses for flushing	1
9		All valves and fittings as required	

CHAMBER MAIN LOCK WITH ALL FITOUT AS BELOW

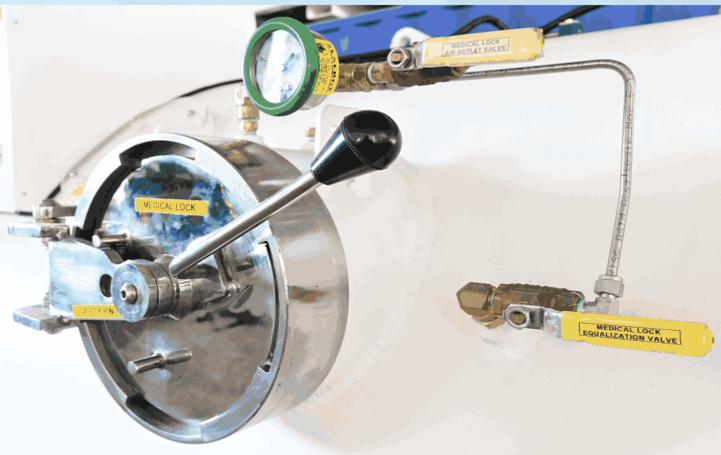


CHAMBER MAIN LOCK WITH ALL FITOUT AS BELOW



Sr.	Part Number	Description	Qty
1	SY-SP-V	Viewport	2
2	SY-SP-VSY-240-FE	Amron Hyperbaric fire extinguisher	1
3	SY-CO2-SCR	Synergy Co2 scrubber unit, 12v, stainless steel	1
4	SY-350M-01	Amron avox hyperbaric bibs, dual hose , 350 msw rated	3
5	SY-7140-01	Amron led hyperbaric light unit	1
6	SY-3114	Amron talk back speaker internal	1
7	SY-CG-230	Internal caisson gauge, 0-230 fsw	1
8	SY-SPT-550RC	Dynalec sound powered phone	1
9	SY-UWC-325/P/E	Internal hyperbaric camera with view of main lock connected to monitor on chamber panel	1
10	SY-EP-4C	Electrical penetration	2
11	SY-FRM	Hyperbaric fire retardant mattress (one for each bed)	1
12	SY-FRP	Fire retardant pillows (one for each bed)	1
13		Stainless Steel foldable beds	2
14		Aluminium checkered floor plate	2
15		Drain valve connected with flexible hoses for flushing	1
16		All valves and fittings as required	1
17		Air - all tubing will be stainless steel with brass fittings	1
18		Oxygen- all tubing will be tungum with brass fittings and O2 approved Teflon tape	

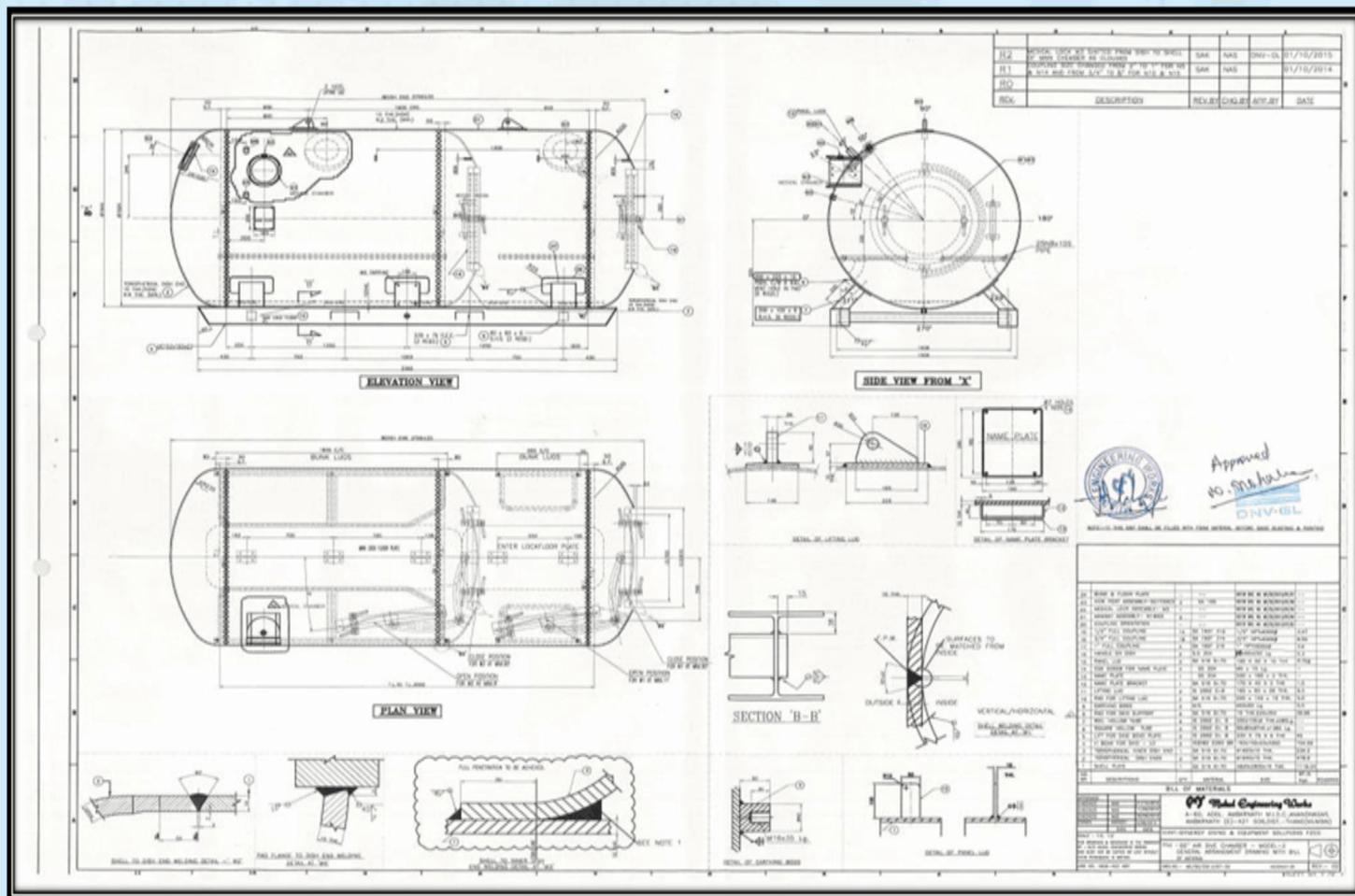
CHAMBER MEDICAL LOCK – STAINLESS STEEL WITH AUTOMATIC INTERLOCK



Sr.	Description	Qty
1	External Medical lock, stainless steel with easy to use handle (for open/ close)	1
2	Internal medical lock door, stainless steel	1
3	Automatic interlock (will lock external door under pressure) (door cannot be opened when interlock is engaged)	1
4	Equilization valve	1
5	Pressure gauge with valve (to show pressure inside medical lock)	1
6	Silencer	1

CHAMBER SHELL -DESIGN & AS BUILT STANDARDS

Sr.	Description
1	Dnv approved as built drawings
2	Pneumatic test witnessed / stamped by Dnv
3	Hydrostatic test witnessed / stamped by Dnv
4	Design code ASME SEC VIII DIV 1 - PVHO
5	Data plate stamped by Dnv / stamp on chamber lip along with serial number for identification
6	Dimensions of the DDC: (LXWXH) – 3796mm X 1500mm X 1687mm
7	Overall height including lifting eyes - 1798mm
8	Overall width including control panel - 1500mm
9	Material boiler steel working pressure - Shell - SA 516 GR.70 / Skid IS2062 GR.B
10	Test pressure - Hydro - 15 KGF / Pneumatic - 11 Bar
11	Design Pressure - Internal - 10 Bar
12	Design Code - ASME SEC. VIII DIV-1, 2007 ADD 08 + ASME PVHO-1,2002



CHAMBER CONTROL PANEL – INCLUDING HP MANAGEMENT PANEL



0-230 fsw/70 msw Depth gauge, 6", 0.25 % accuracy, mirror scale, with calibration point ,
Entry lock, Color coded **Red**



1 x 0-230 fsw/70 msw Depth gauge, 6", 0.25 % accuracy, mirror scale, with calibration point ,
Main lock, Color coded **Green**

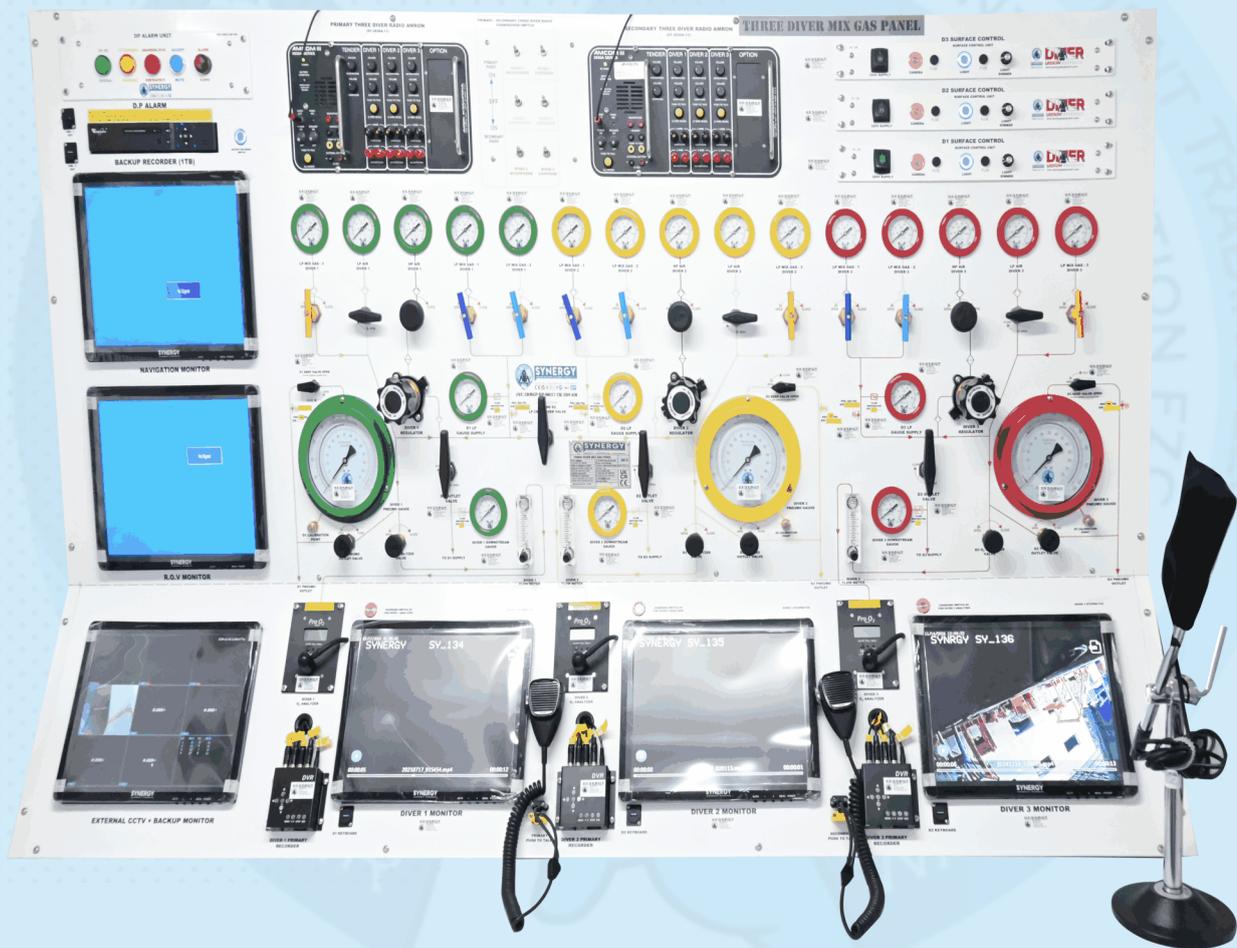


1 x 0-70 fsw/21 msw Depth gauge, 8.5", 0.25 % accuracy, mirror scale, with calibration point ,
Therapeutic, Color coded **Black**



Sr.	Part Number	Description	Qty
1	SY-PRO-O2	Oxygen analyzer (O2) with high low alarm connected with a Dwyer VFA 22 BV flow meter to chamber (can read from both entry and main lock by opening valve as required)	1
2	SY-PRO-CO2	Carbon dioxide analyzer (CO2) with high alarm connected with a Dwyer VFA 22 BV flow meter to chamber (can read from both entry and main lock by opening valve as required)	1
3	SY-PG-O2-2.5-500	Gauge for oxygen supply to chamber (oxygen approved gauge)	1
4	SY-PG-A-2.5-500	Gauge for low Pressure air supply to chamber	1
5	SY-2820A-02	chamber communicator, Amron (with push to talk microphone)	1
6	SY-873-400	Option 1 Aqua environment high pressure regulator w/gauges	
7	SY-SPT-550RC	Dynalec sound powered phone (connected to entrance/main lock spt)	1
8	SYTRAN220/24/12	(2 x 24v, 2 x 12v, switch for emergency battery power)	1
9	All inlet and outlet connections provided on the panel frame itself		

THREE DIVER MIX GAS PANEL (BACK PLUMBING) SY-3DMG-D037-XR-XDV-XM



Part Number: SY-3DMG-D037-2R-3DV-6M



THREE DIVER MIX GAS PANEL (BACK PLUMBING) SY-3DMGP-BP-D037-XR-XDV-XM

TECHNICAL SPECIFICATIONS OF THREE DIVER MIX GAS PANEL

Sr.	Description:
1	Powder coated aluminum non rust facia
2	All engraved lines with each valve/fitting/regulator etc clearly marked
3	SS Frame mounted
4	Backside access through container rear door, rubber lined to prevent water ingress (enables easy visuals, repairs, maintenance etc as required on the panel).

DESIGN CRITERIA FOR DIVE PANEL

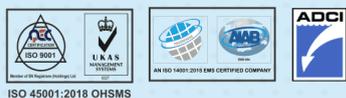
Sr.	Description:	Qty
1	Diver pneumo gauges – traffic light system for easy understanding, size 6" rated to 330fsw.	
	Diver 1 – with individual calibration point 	1
	Diver 2 – With individual calibration point 	1
	Diver 3 – With individual calibration point 	1
	Each Diver provided with 5 supply lines (all mix gas regulated at source)	
A	Diver 1 – Common mix gas line 1 Diver 2 - Common mix gas line 1 Diver 3 - Common mix gas line 1	
B	Diver 1 – Common mix gas line 2 Diver 2 - Common mix gas line 2 Diver 3 - Common mix gas line 2	
C	Diver 1 – Common mix gas line 3 Diver 2 - Common mix gas line 3 Diver 3 - Common mix gas line 3	
D	Diver 1 – Independent high pressure air line 4 Diver 2 – Independent high pressure air line 4 Diver 3 – Independent high pressure air line 4	



THREE DIVER MIX GAS PANEL (BACK PLUMBING) SY-3DMGP-BP-D037-XR-XDV-XM

DESIGN CRITERIA FOR DIVE PANEL

Sr.	Description:	Qty
E	Diver 1 – Common low pressure air line 5 Diver 2 – Common low pressure air line 5 Diver 3 – Common low pressure air line 5	
2	All air supply lines (inlet and outlet) are color coded per diver	
3	Oxygen analyzers with high low alarm (one per diver) (for mix gas use)	3
4	Flow meters (per analyzer)	3
5	Pressure gauges	
	Diver 1 Hp air / Diver 1 Lp air/ Diver 1 Mix gas-1 Diver 2 Hp air / Diver 2 Lp air/ Diver 2 Mix gas-1 Diver 3 Hp air / Diver 3 Lp air/ Diver 3 Mix gas-1	
6	Tescom High pressure regulator, (Inlet 3,750 psi, outlet 1,000 psi) (one per diver)	3
7	Downstream gauges (one per diver) to show umbilical air supply pressure	3
8	Flow Restrictor (on Lp supply gauge & Downstream gauge)	3
9	BA set provided separate (optional)	
10	All tubing used will be tungum tubing , high pressure	
11	All valves for incoming air supplies will be brass , high pressure	
12	All valves for regulated supplies will be brass, high pressure	
13	Diver communication	
	Amron 3 diver helium unscramber Push to talk microphone for above	
14	Diver underwater video system	
	Diver 1/Diver 2 / Diver 3 with individual surface control unit for Video / Light operation Diver 1/Diver 2 / Diver 3 videos recorded on individual Mini Dvr with 32 GB Sd card Backup recorder (black box) 1 TB hard drive (simultaneous recording of all dives) Diver 1/Diver 2 / Diver 3 individual monitor 15"	



BUREAU VERITAS CLASS CERTIFICATE PROVIDED WITH EACH DDC

Industry & Facilities Division
Third Party Inspection Report
Page 1 of 6

INSPECTION REPORT No: DBA.4.24.1167.291124.IR-05.KG Revision No: 0

INSPECTION REPORT No: DBA.4.24.1167.291124.IR-05.KG Revision No: 0

Initial Interim Final Resident

Inspection requested by: M/S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE
Inspection performed as Recognized Authority: Yes No
BV Job No: DBA.4.24.1167

Project: Third Party Inspection Services IPO Ref (if applicable):
(BV Internal Pic)
BV Client: M/S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE P/O no: (Client to BV)
Manufacturer/Vendor: Mukul Engineering Works P/O no: (Client to Manufacturer)

Sub-Vendor/Supplier: N/A Previous inspection (if applicable): N/A
Inspection Location: Al Quada, Dubai
Inspection performed on: 29.11.2024 Next inspection (if applicable): TBA

MATERIAL / SUBJECT OF INSPECTION ITEM / TAG No: QTY As per PO: QTY Offered for inspection:
Witness Of Pneumatic Over Pressure Test of 60" Diving Decompression Chamber @ 11 Kg/cm² MEW/716/ADC Model-3 01 No. 01 No.

A - INSPECTION RESULT
 Satisfactory (Without comments) Satisfactory with comments (Any trailing Punch or Non Conformity items is still open) Not Satisfactory (NCR raised during the inspection)

Inspection Summary (for details refer to section E)
Witness of Pneumatic Over Pressure Test at @ 11 Kg/cm² for Diving Decompression Chamber, Serial No: MEW/716/ADC Model-3 as per annexure - A & Found Satisfactory

Open Non Conformities: Yes, details in section G No
Open Punch List Items: Yes, details in section H No
Release Note Issued: Yes, number(s): No
BV Traceability Stamping: Yes No

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Industry & Facilities Division
Third Party Inspection Report
Page 2 of 6

INSPECTION REPORT No: DBA.4.24.1167.291124.IR-05.KG Revision No: 0

BV Inspector: Kiran Govind
BV Coordinator: Bibin Lal Gopi Leela
BV Office: Dubai Inspection Report Date: 29.11.2024

Distribution: CLIENT BV MANUFACTURER OTHER: Attachments Report: Yes, details in section J No

B - REFERENCE DOCUMENTATION: (Refer to attachment section J instead (indicate if separate document list is provided in attachment))

Title	Reference n°	Approval status	Approved by	Date
Diving Equipment System Inspection Guidance	IMCA DG23	2.3 Approved	IMCA	October 2024
Pneumatic Over Pressure Test	SSEL-QMS-M-01	02 Approved	Synergy	May 2016

C - ATTENDEES

Name	Position	Representing
Mr. Kiran Govind	Sr. Lifting Inspector	Bureau Veritas
Mr. Ajaz	QC Engineer	Synergy

D - MEASURING & TESTING EQUIPMENT USED (Refer to attachment section J instead (indicate if separate equipment list is provided in attachment))

Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
Digital Pressure Gauge	1400L124412	04-09-2024	03-09-2025

E - INSPECTION DETAILS
E1 - Details of Witness (W) & Hold (H) Inspection Points

- Manufacturing Progress Status: Nil
- Details of Inspection Activities carried out with reference to ITP:
 - Visual inspection of piping on diving decompression chamber and found satisfactory.
 - Verified the serial no MEW/716/ADC Model-3 of diving decompression chamber and viewpoints
 - Witnessed pneumatic over pressure of diving decompression chamber as per annexure - A & found satisfactory at the time of inspection.

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Industry & Facilities Division
Third Party Inspection Report
Page 3 of 6

INSPECTION REPORT No: DBA.4.24.1167.291124.IR-05.KG Revision No: 0

F - HEALTH, SAFETY & ENVIRONMENT COMMENTS (Comment on Observations and Actions Taken During the Inspection)
Carried out 2 minutes safety check list & No Safety Concerns were found at the time of inspection

G - NON CONFORMITIES (Refer to attachment section J instead (indicate if separate punch list is provided in attachment))

Item	Description	Status	Raised on	Report No.	Closed on	Report No.	Comments
N/A							

H - PUNCH LIST ITEMS (Refer to attachment section J instead (indicate if separate punch list is provided in attachment))

Item	Description	Status	Raised on	Report No.	Closed on	Report No.	Comments
N/A							

I - DIGITAL PICTURES

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Industry & Facilities Division
Third Party Inspection Report
Page 4 of 6

INSPECTION REPORT No: DBA.4.24.1167.291124.IR-05.KG Revision No: 0

DESCRIPTION: Design Reading During Test

DESCRIPTION: Gauge Calibration Check

DESCRIPTION: Data Plate

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Industry & Facilities Division
Third Party Inspection Report
Page 5 of 6

INSPECTION REPORT No: DBA.4.24.1167.291124.IR-05.KG Revision No: 0

DESCRIPTION: Data Plate

J - ATTACHMENTS

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Industry & Facilities Division
Third Party Inspection Report
Page 6 of 6

INSPECTION REPORT No: DBA.4.24.1167.291124.IR-05.KG Revision No: 0

Attachment Name | **Total Pages** | **Description**

Annexure -01

Inspection Details:

- Witnessed Pneumatic over pressure test of diving decompression chamber with the following details.

Description	: 60" Diving Decompression Chamber
Design Code	: ASME see VIII DIV-1 PV10-1
Country of origin	: INDIA
Manufacturer Serial No.	: MEW/716/ADC Model-3
Manufacturer	: Mukul Engineering Works.
Maximum Pressure	: 10 Kg/cm ²
Design pressure	: 10 Kg/cm ²
Pneumatic over test pressure	: 11 Kg/cm ²
Pneumatic Test Date	: 29.11.2024
Min / Max Temperature	: 0- 52 C
Radioactivity	: 100 %
Container Serial No.	: LYGU 165917 1

Pneumatic Test:

- Pneumatic over pressure test of diving decompression chamber (Serial No. MEW/716/ADC Model-3) has been witnessed as per the approved procedure and found the following:
 - Test Pressure gauge calibration certificate was reviewed and found satisfactory.
 - The chamber was pressure tested to 11 Kg/cm² for 30 min and found satisfactory.
 - Stop solution leak test was performed on chamber piping, fittings and viewpoints and no leakage found at the time of inspection. Results satisfactory.

END OF REPORT

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Industry & Facilities Division
Third Party Inspection Report
Page 1 of 6

INSPECTION REPORT Nr DBA.4.24.1167.291124.IR-06.KG Revision Nr 0

Initial Final Resident
Inspection performed as Requested Authority: Yes, (for observation) No
BV Job Nr: DBA.4.24.1167

Project: Third Party Inspection Services IFO Ref (if applicable):
(BV Internal Plo)
BV Client: M/S. Synergy Innovative Diving Equipment Trading LLC Dubai, UAE Plo nr: (client to BV)
Manufacturer/Vendor: Synergy Innovative Diving Equipment Trading LLC, Dubai, UAE Plo nr: (client to Manufacturer)
Sub-Vendor (if applicable): N/A Previous Inspection (if applicable): N/A
Inspection Location: At Client, Dubai Next Inspection (if applicable): TBA
Inspection performed on: 29.11.2024

MATERIAL / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY As per P/O	QTY Offered for inspection
Witness of Pneumatic Over Pressure Test of Three Diver Mix Gas Panel, High Pressure Lines @ 3300 psi & Low Pressure Lines @ 330 psi	Serial No. TRITON-783	01 No.	01 No.

A - INSPECTION RESULT
 Satisfactory (Without comments) Satisfactory with comments (Any of trailing Punch or Non Conformity items is still open) Not Satisfactory (NCR raised during the inspection)

Inspection Summary: (for details refer to section E)
 Witness of Pneumatic Over Pressure Test of Three Diver Mix Gas Panel, High Pressure lines @ 3300 psi & Low Pressure lines @ 330 psi, Serial No. TRITON-783, as per Annexure -A & Found Satisfactory.

Open Non Conformities: Yes, details in section G No
 Open Punch List Items: Yes, details in section H No
 Release Note Issued: Yes, number(s): (Release Note number) No
 BV Traceability Stamping: Yes No

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Industry & Facilities Division
Third Party Inspection Report
Page 2 of 6

INSPECTION REPORT Nr DBA.4.24.1167.291124.IR-06.KG Revision Nr 0

BV Inspector: Kiran Govind BV Coordinator: Bibin Lal Gopi Leela
 BV Office: Dubai Inspection Report Date: 22.07.2024

Distribution: CLIENT OTHER: MANUFACTURER OTHER: Attachments Report: Yes, details in section J No

B - REFERENCE DOCUMENTATION:
 (Indicate if separate document list is provided in attachment)

Title	Reference n°	Rev.	Approval status	Approved by	Date
Diving Equipment System Inspection Guidance	IMCA D0023	2.3	Approved	IMCA	October 2024
Pneumatic Over Pressure Test	SSEL-QMS-M-01	02	Approved	Synergy	May 2016

C - ATTENDES

Name	Position	Representing
Mr. Kiran Govind	Sr. Lifting Inspector	Bureau Veritas
Mr. Bibin	Engineer	Synergy

D - MEASURING & TESTING EQUIPMENT USED
 (Indicate if separate equipment list is provided in attachment)

Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
Pressure Gauge	93242	10-03-2024	09-03-2025

E - INSPECTION DETAILS
E1 - Details of Witness (W) & Hold (H) Inspection Points

- Manufacturing Progress Status
 - Nil
- Details of Inspection Activities carried out with reference to ITP
 - Visual inspection of Three Diver Mix Gas Panel & Found Satisfactory.
 - Verified the serial No. TRITON - 783 of Three Diver Mix Gas Panel.
 - Witnessed pneumatic over pressure of Three Diver Mix Gas Panel as per Annexure - A & Found Satisfactory at the time of inspection.
 - Pressure leak test on pipe work, valves, fittings found satisfactory at the time of inspection.
- Confirmation of certificates
 - Verified calibration certificates of measuring instruments and found satisfactory.

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Industry & Facilities Division
Third Party Inspection Report
Page 3 of 6

INSPECTION REPORT Nr DBA.4.24.1167.291124.IR-06.KG Revision Nr 0

E2 - Details of Monitoring and Surveillance Patrols Tick if conducted during the visit
E3 - Details of Certificates Review Tick if conducted during the visit

F - HEALTH, SAFETY & ENVIRONMENT COMMENTS
 (Comment on Observations and Actions Taken During the Inspection)
 Carried out 2 minutes safety check list & No Safety Concerns were found at the time of inspection

G - NON CONFORMITIES
 (Indicate if separate punch list is provided in attachment) Refer to attachment section J instead

Item	Description	Status	Raised on	Report Nr.	Closed on	Report Nr.	Comments
N/A							

H - PUNCH LIST ITEMS
 (Indicate if separate punch list is provided in attachment) Refer to attachment section J instead

Item	Description	Status	Raised on	Report Nr.	Closed on	Report Nr.	Comments
N/A							

I - DIGITAL PICTURES

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Industry & Facilities Division
Third Party Inspection Report
Page 4 of 6

INSPECTION REPORT Nr DBA.4.24.1167.291124.IR-06.KG Revision Nr 0

J - ATTACHMENTS

Item	Attachment Name	Total Pages	Description

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Industry & Facilities Division
Third Party Inspection Report
Page 5 of 6

INSPECTION REPORT Nr DBA.4.24.1167.291124.IR-06.KG Revision Nr 0

J - ATTACHMENTS

Item	Attachment Name	Total Pages	Description

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Industry & Facilities Division
Third Party Inspection Report
Page 6 of 6

INSPECTION REPORT Nr DBA.4.24.1167.291124.IR-06.KG Revision Nr 0

Annexure -01

Inspection Details:

- Witnessed Pneumatic over pressure test of three diver air panel with the following details.

Description	: Three Diver Mix Gas Panel
Country of origin	: U.A.E
Manufacturer Serial No.	: TRITON 783
Year of Manufacture	: November 2024
Design pressure	: LP-300 psi / HP-3000 psi
Test pressure	: LP-330 psi / HP-3300 psi
Pneumatic Test Date	: 29.11.2024

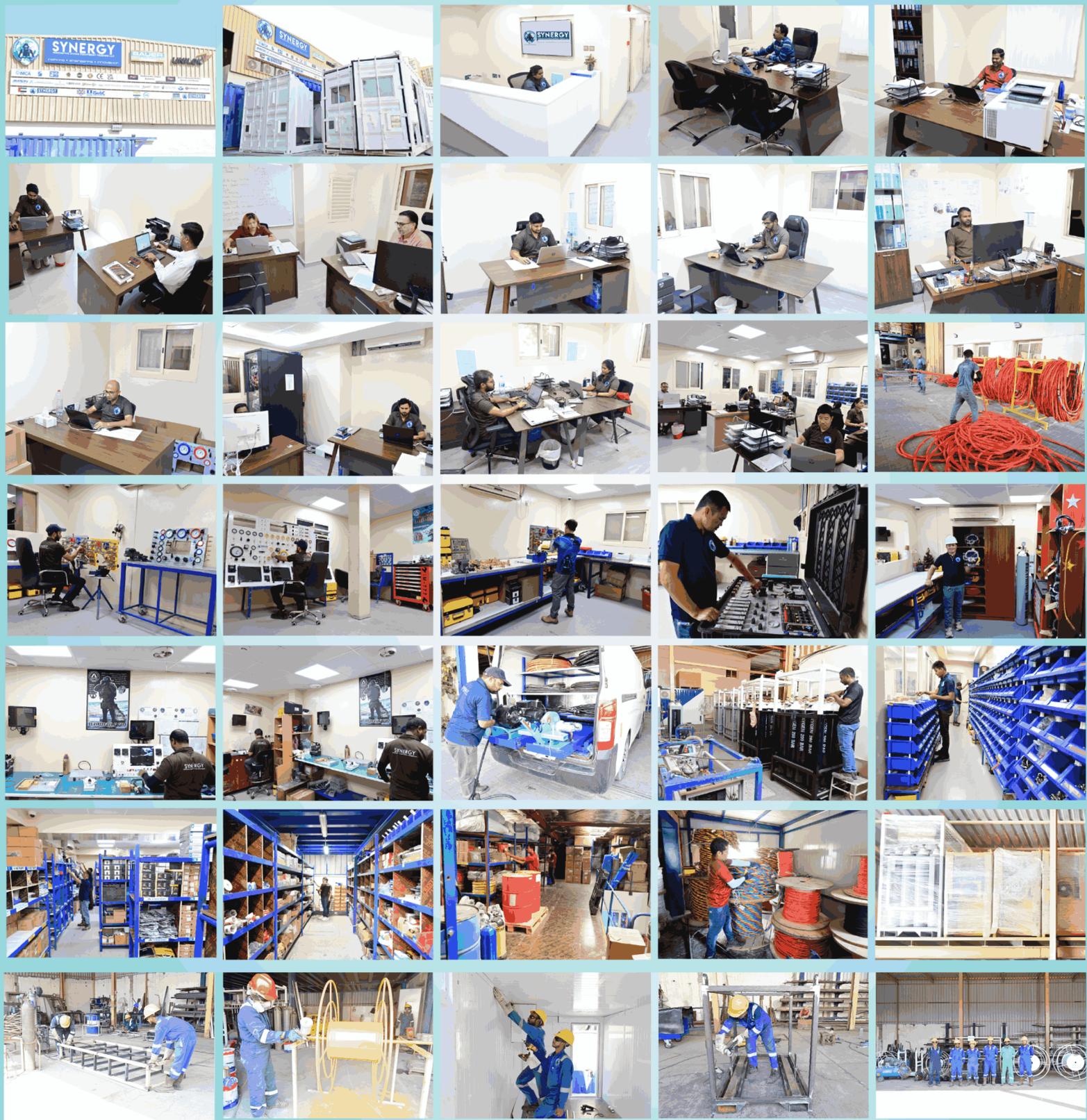
Pneumatic Test:

- Pneumatic over pressure test of Three Diver Mix Gas Panel (Serial No. TRITON 694) has been witnessed as per the approved procedure and found the following:
 - Test Pressure gauge calibration certificate was reviewed and found satisfactory.
 - Low Pressure of 330 psi (1.1 times of WP) was applied to the low pressure piping of Three Diver Mix Gas Panel for 30 mins, no leaks found, satisfactory at time of inspection.
 - High Pressure of 3300 psi (1.1 times of WP) was applied to the high pressure piping of Three Diver Mix Gas Panel for 30 mins no leaks found, satisfactory at time of inspection.
 - Soap solution leak test was performed on piping, fittings & valves, no leakage found at the time of inspection. Results satisfactory.

END OF REPORT

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SYNERGY INFRASTRUCTURE





SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

DIVING DECOMPRESSION CHAMBER WITH 3 DIVER MIX GAS PANEL IN 20FT CONTAINER

Contact us



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