EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000063E

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Self-contained compressed-air-operated breathing apparatus

with type designation(s)
YIBEI 6 and YIBEI 6.8

Issued to
Shanghai Yibei Safety Equipment Co. Ltd.
Shanghai, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/3.7. SOLAS 74 as amended, Regulation II-2/10 & X/3, 2000 HSC Code 7, FSS Code 3, IBC Code 11, IGC Code 11 and IMO MSC.1/Circ.1499, IMO MSC.1/Circ.1555.

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-03-23**.

Issued at **Hamburg** on **2021-03-24**

DNV local station:
Shanghai

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

YIBEI 6 and YIBEI 6.8 are self-contained compressed-air-operated breathing apparatus (SCBA) with a single compressed air cylinder for shipboard fire-fighters (maritime use only).

Principle components:

a) Full face, positive pressure mask in accordance with EN136, manufactured by the applicant (see Page 1),
b) Air supply valve,
c) Cylinder valve and pressure regulator,
d) Pressure gauge and alarm whistle acc. to IMO Res. MSC.339(91), in conjunction with IMO SC.1/Circ.1499
e) Back-frame and harness,
f) Compressed air cylinder:
   - YIBEI 6: seamless steel cylinder manufactured by “Nanjing Banqiao Fire Fighting Equipment Co., Ltd.” with volume 6L/ 300 bar (max. air volume 1800 l)
   - YIBEI 6.8: cylinder consisting of high-strength aluminium alloy liner, fully wrapped with carbon fibre composite material, manufactured by “Zhejiang Kibo Pressure Vessel Co.,Ltd“ with volume 6.8 L/300 bar (max. air volume 2040 l)

Application/Limitation

Approved for use as self-contained compressed air breathing apparatus of fire-fighter’s outfit.
All air cylinders for breathing apparatus shall be interchangeable.
Air cylinders and their valves shall comply with appropriate national regulations.
Maximum working pressure: 300 bar
The compressed air shall comply with EN 12021.
The SCBA shall be used in conjunction with a fire-proof lifeline which is certified in accordance with MED/3.44.
A set of manufacturer’s instructions shall accompany every unit and should be kept onboard. Manufacturer’s instructions for application / limitations, checks prior to use, donning and fitting, use, cleaning and disinfection, maintenance, transport and storage shall be adhered to.

Type Examination documentation

Test Report: China Classification Society Wuhan Testing Center of Marine Life-saving Appliances
- No.2019068 and 2019069 both dated 2019-07-25
- No. 2019068 Annex dated 2019-11-27

.
Technical drawing: General arrangement SCBA dated 2020-01-13

Tests carried out

Tested according to ISO 23269-2:2011

Marking of product

The product is to be indelibly marked in accordance with ISO 23269-2:2011 Para.9 and with name and address of manufacturer, type designation and the MED Mark of Conformity (see first page).

The compressed air cylinder markings shall include the charging pressure, capacity and the stamp of the authorised inspection body.