



## **Varna, Bulgaria, Bulgarian Academy of Science, Institute for Oceanology**

Chief: "Professor F. Nansen" - Varna  
Vehicle: Scientific Mini Submarine RS-8-B  
Ship-owner: Bulgarian Academy of Science  
Operator: Institute for Oceanology – Varna  
Flag: Republic of Bulgaria  
Registration: Sea Port of Varna

### **Background:**

The Submarine gives excellent opportunity for scientists, marine biologists, geologists, chemists and archaeologists to make their observations and test experiments directly in the water environment of the sea floor.

The Biological, Chemical and Geology samples, obtained thru the habitable underwater crafts are known for their high precision, which reflects in correctness of the scientific research, examinations, facts and arguments.

### **Technical characteristics and equipment:**

- Length: 6,50 meters
- Width: 1,98 meters
- Height: 2,35 meters
- Weight: 5,5 metric tones
- Work Depth: 250 meters
- Power supply: 48 pieces of accumulator batteries;
- Electric engines: 3 pieces;
- Maximal speed under water: 3 knots;
- Time for one work mission: 3 to 6 hours;
- Life supporting system: 72 hours;
- Manufacturer: Perry Submarine Builders, Miami, FLA, USA
- Date of manufacturing: 1971 year.
- Date of renovation: 1986 year.

### **Crew:**

- Commander / Pilot;
- Board engineer / Navigator;
- Scientific Observer;



### Equipment:

- gyro – compass
- Hydro locator for all round view
- Gas analyser for Oxygen presence
- Gas analyser for CO2 presence
- Apparatus for CO2 collection
- Oxygen dose apparatus
- Oxygen storage bulk for normal mission
- Main ultrasonic telephone 35 Khz
- Break Down ultrasonic telephone 10 Khz
- VHF Radio Equipment
- Colour Underwater Camera
- Video Recorder HI8
- Underwater Lights 5 pieces x 600 Watts
- Manipulator with 5 stages of freedom

### Break Down Equipment

- Emergency storage of Oxygen
- Emergency Absorbent of CO2
- Emergency Ballast
- Emergency buoy
- Emergency fixation apparatus for pull out of the Submarine
- Emergency storage, (food, water, thermo-bags and hygiene containers)

### Resources:

URL; [https://www.bas.bg/?page\\_id=24441&lang=en](https://www.bas.bg/?page_id=24441&lang=en)

### Images;

