



**MONDOFIN**  
FINANCIAL ENGINEERING



# BOD Barometric System (BS) Device

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A special Barometric System Device was developed to conduct various measurements when monitoring biological waste water treatment plants.

BOD BS – is a barometric system to determine biochemical oxygen demand.

The method for determination of biochemical oxygen demand is based on ability of microorganisms to consume dissolved oxygen during biochemical oxidation of organic and inorganic substances in water.



# Methods used to determine biochemical oxygen demand

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Europe and the USA use electronic devices to measure biochemical oxygen demand, which eliminate the risks, reduce expenditures and complexity of measurements connected with the light-and-dark-bottle method.

Devices currently used worldwide:

- OxiTop (Germany)
- Quick Scan BOD Analyzer (USA)
- BODTrak (Germany)
- BOD EVO Sensor (Italy)
- CI-B5 BOD ANALYZER (China)

Considering the great demand for a simpler process used to analyse BOD, we have developed BOD BS Device.

# Advantages

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## Benefits of using barometric system as compared to other methods used to measure BOD:

1. Simplicity of use;
2. Eliminates human factor;
3. Enhances accuracy of measurements;
4. Mobility;
5. Does not require continuous maintenance;
6. The analysed sample is not subject to influence of external factors during the measurements;
7. Low cost compared to other devices available on the market:
  - OxiTop (Germany) – US\$ 4 000;
  - Quick Scan BOD Analyzer (USA) – US\$ 3 000;
  - BODTrak (Germany) – US\$ 2 800;
  - BOD EVO Sensor (Italy) – US\$ 3 800;
  - CI-B5 BOD ANALYZER (China) – US\$ 2 000;
  - **BOD BS (Mondofin) – US\$ 1 350;**
8. Allows conducting daily monitoring of quality of waters.

# Fields of application of BOD BS Device

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- industrial waste waters;
- domestic waste waters;
- rain and melt-waters;
- surface and underground waters;
- industrial enterprises;
- analytical laboratories;
- research centres;
- universities.

# Complex Ecological Permits

Approved Innovative Technology of NPO Kinematika

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The technology will help relevant enterprises to achieve regulatory figures under the standards of Complex Ecological Permits with minimum financial and time expenditures.

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