



GEOVOS SPARING

ONLINE WATER QUALITY MONITORING SYSTEM

a solution by :



FORTUNA
ARGATECH

GEOVOS SPARING

Monitoring System is an industrial monitor of the wastewater quality with realtime monitoring system through web-based software with integration to databases of the Ministry of Environment and Forestry of the Republic of Indonesia.



REFERS TO

Ministerial Regulation (PERMEN) KEMEN-LHK No.1236, 2018 Regarding Continuous Monitoring of Wastewater Quality in Businesses and/or Networks (SPARING)

Ministerial Regulation (PERMEN) No. P.80 / MENLHK / SETJEN / KUM.1 / 10/2019

Regarding Changes to Ministerial Regulation (PERMEN) No No.1236, 2018 Ministry of Environment and Forestry Monitoring About Continuous Monitoring of Wastewater Quality in Businesses and/or Activities Networks (SPARING)

CERTIFICATE OF CONNECTIVITY TEST

Number: KT.06/PPA/PPI/PKL.2/12/2019 Directorate of Water Pollution Control of the Ministry of Environment and Forestry, which explains that FORTUNA ARGATECH is one of the companies declared PASS THE CONNECTIVITY TEST of SPARING and permitted to provide SPARING equipments.

In the industrial era 4.0, the mining, plantation and manufacturing industries carry out remote monitoring (telemetry) in real time, while storing and displaying it on a large selection of devices.

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pH, TSS, Debit, COD, & NH3-N (Amonia) are **mandatory** SPARING Parameters according to Ministerial Regulation (PERMEN) KEMEN-LHK No.1236, 2018 and Ministerial Regulation (PERMEN) No. P.80 / MENLHK / SETJEN / KUM.1 / 10/2019. The sensors have to integrated and monitored realtime with database of Ministry of Environment and Forestry.

SPARING parameters based on the type of industry * :

TSS, DEBIT & PH

Coal Mine
Nickel
Copper & Gold Mine
Ore Mine Industry

TSS, DEBIT, PH & COD

Rayon
Pulp & Paper
Petrochemical
Palm Oil
Cement

PH, COD, NH3-N & DEBIT

Petroleum Processing
Oil & Gas Exploration

pH, COD, Debit, NH3-N & TSS

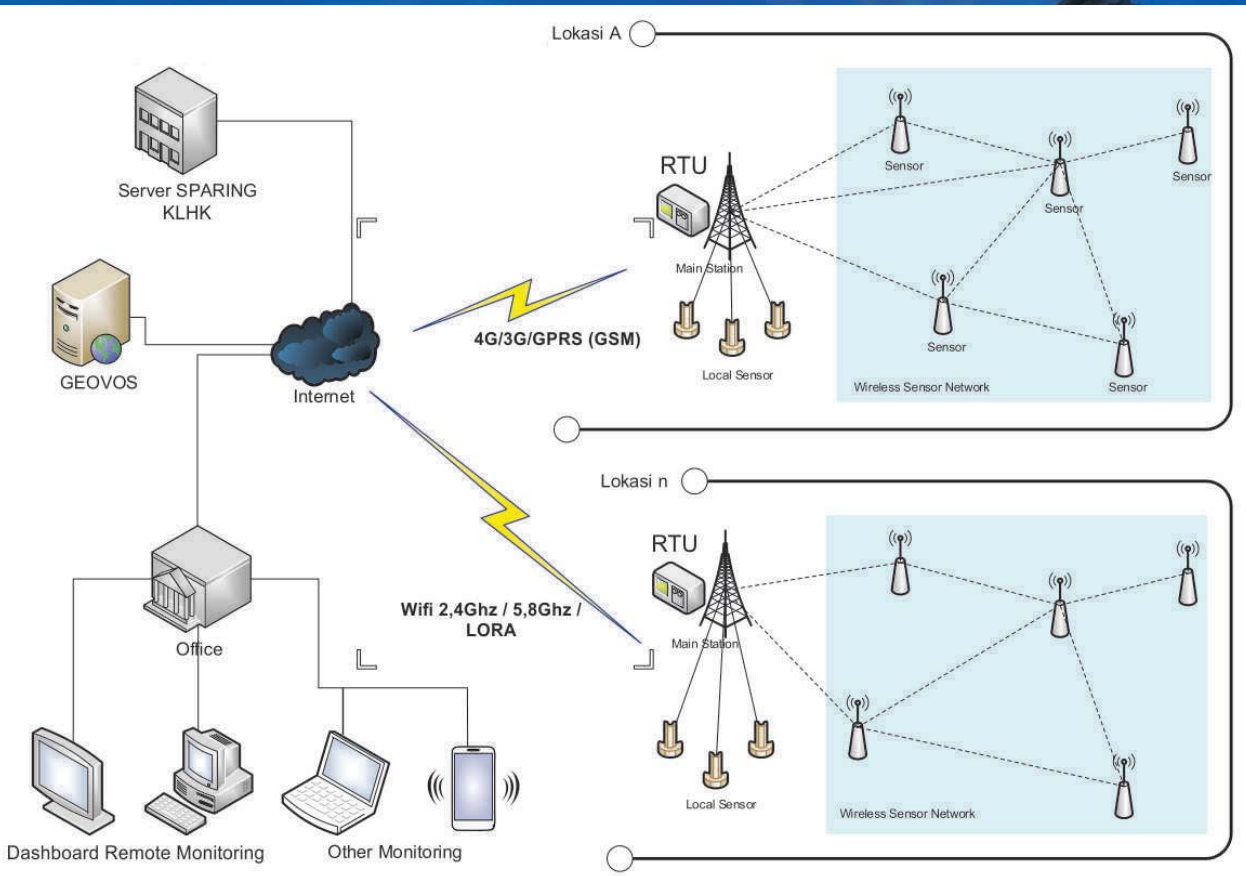
Industrial Park
Basic Oleochemical
Textile

*) These industries have to implemented SPARING system at least 2 years after the Ministerial Regulation No.1236, 2018 released by government .

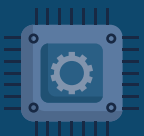




HOW IT WORKS



WHAT MAKES GEOVOS SPARING BETTER?



Using High Grade Sensors for Best Accuracy of Measurement



Best Local Parts. Using 90% Made in Indonesia Parts and Components



24/7 Standby Team for System Services and Calibration