

INDUSTRY VISIT TO INDAH WATER RESEARCH CENTRE

LOT 3938, JALAN CHAN CHIN MOOI, TITIWANGSA, 53200
KUALA LUMPUR, FEDERAL TERRITORY OF KUALA LUMPUR.

TECHNOLOGY AND
INFORMATION
SYSTEM (SECP1513)



Indah Water

4 JANUARY 2024



Indah Water Research Centre

TRANSFORMING WASTE INTO WELLBEING,
SUSTAINING LIVES THROUGH WATER EXCELLENCE!

Established in December 2012, the Indah Water Research Center (IWRC) is at the forefront of environmental research and innovation within Indah Water Konsortium. Dedicated to advancing sustainable solutions, IWRC collaborates with internal research teams, strategic partners, and institutions to shape the future of water cycle processing.

THE TECHNOLOGIES

Indah Water Konsortium in Titiwangsa employs the SCADA (Supervisory Control and Data Acquisition) system to manage various hardware components in their wastewater treatment processes. This includes overseeing aeration tanks, preliminary treatment, and secondary treatment. SCADA helps streamline the monitoring and control of these critical elements, ensuring efficient and effective wastewater treatment operations at the facility.



Server



PAC Panel

GROUP MEMBERS:

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Summary of the visit

Aeration tank will promote the growth of aerobic microorganisms by introducing oxygen, facilitating the biological breakdown of organic pollutants in the wastewater.



The visit to the Indah Water Research Centre revealed some important issues of the national sewerage company in Malaysia. It emphasised the historical takeover of national services, focused about the difficulties in growing, pointed out the significance of contemporary sewerage systems for environmental health. The application of the SCADA system and other technological innovations were investigated. Overall, the visit gave a brief overview of Indah Water's dedication to excellence in wastewater treatment and highlighted its role in preserving the environment and public health.

Issues discussed in the visit

The purpose of the Indah Water Research Centre, Malaysia's national sewerage corporation, was explained during the visit. The takeover of nationwide sewerage services in 1994, previously managed by local authorities, was observed, along with the challenges faced in expanding services, especially in Sabah and Sarawak. The significance of a contemporary sewerage system for protecting public health, conserving water resources, and upholding a cleaner environment was emphasised.

In providing sewerage services, the dedication to ethical and professional conduct, and corporate governance was emphasised. The use of the SCADA system for efficient wastewater treatment processes was explored. The vision of Indah Water to be recognized as a premier wastewater company and the significance of a skilled team for excellence in wastewater management were highlighted. Overall, the visit provided a simple yet formally presented overview of Indah Water's contributions and challenges in managing Malaysia's sewerage system.



The dry solids extracted by the sewage treatment process are transported to other locations for further processing into materials that can benefit the environment.

Reflection from the visit

The industrial visit to IWRC has profoundly impacted the students' understanding of the pivotal role software engineering plays in advancing sewage treatment. Witnessing the practical application of high-tech systems emphasized the crucial link between technology and the efficiency of sewage treatment processes, leaving the students inspired and appreciative of the opportunity provided by IWRC.

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