



สำนักงานที่ปรึกษาการเกษตรต่างประเทศ  
ประจำกรุงวอชิงตัน ดี.ซี.

Office of Agricultural Affairs - Royal Thai Embassy - Washington DC

## Royal Irrigation Department Wins Honorary Award “Inventions of the Year 2024”



The Royal Irrigation Department, Ministry of Agriculture and Cooperatives, wins the honorary award “Inventions of the Year 2024” from the National Research Council of Thailand (NRCT). The work “A Comparative Study of Saving Water for Paddy Field in Supanburi Province: in Case Study with RD 41” was led and performed by Mr. Chawakorn Riwtrakulpaiboon and his team. Mr. Chawakorn is the senior civil engineer and head of the Water Disaster Prevention and Mitigation Engineering Section of the Research and Development Division.

The project developed a water level measuring equipment for determining water levels for Alternative Wet and Dry Irrigation (AWDI) which connected with Internet of Thing (IOT) system. The principle of traditional alternating wet and dry rice farming was applied. Visual observation of water levels through pipes buried in the rice fields was replaced with an electronic device. The newly developed equipment is capable of automatically calculating the water level



and transmitting the information, via appropriate system suitable for each area, to the users. Water level data in each period is stored in the cloud and further used for calculating water utilization. The results can be used for water management in each area in an appropriate and efficient manner.

The awarded project is an important step for academics in the dimensions of studies, research and innovations. The initiatives were steered by Mr. Witthaya Kaewmee, Deputy Director-General of the Royal Irrigation Department, in accordance with the Irrigation Department's 20-year strategic plan (2018 - 2037). The aims are to make the Royal Irrigation Department become the "Intelligent organization responsible for ensuring water security and maximizing service value" by the end of 2037. Stability, prosperity and sustainability in water resources for Thai people are the main goals to achieve.

Source: [https://siamrath.co.th/n/486630#google\\_vignette](https://siamrath.co.th/n/486630#google_vignette)

**Office of Agricultural Affairs, Washington D.C.  
October 2023**

