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NEWS RELEASE

ISDN Holdings in JV to bring state-of-the-art disinfectant solutions into Asia’s fight against COVID-19

- ISDN is taking 51% stake in a joint venture with ERST Project GmbH to bring innovative disinfectant products and solutions for Asian and Pacific markets
- ERSTOTIZER is an advanced anti-viral, anti-bacterial film with demonstrated antiviral capabilities lasting up to 24 months
- WATERLIQ is a water-based disinfectant that can be safely applied directly to disinfect surfaces immediately, and can also be safely used in aerosol, fogging or humidifier applications to clean large areas
- Both products are environmentally-friendly, tested by independent laboratories, and satisfy EPA criteria on effectiveness against viruses
- The JV is already supplying product samples to selected markets with promising results. ISDN is proud to be using its global relationships and market access in Asia to contribute commercial solutions for Asia’s fight against the COVID-19 pandemic.

Singapore, 6 May 2020 – ISDN Holdings Limited (“**ISDN**”, and with its subsidiaries, the “**Group**”), a leading industrial automation firm, today announced a joint venture (“**JV**”) with German company ERST Project GmbH (“**ERST**”) to bring state-of-the-art disinfectant products to Asia. The products, suitable for use in hotels, residences, workplaces, restaurants, public transport, government offices, hospitals, clinics, airports, and more, are aimed at helping Asia secure sustained virus-free public spaces by using proven, environmentally-friendly technology.

The JV company, ERST Asia Pacific Pte Ltd (“**ERST APAC**”), has been established in Singapore with ISDN and ERST taking ownership of 51% and 49% respectively.

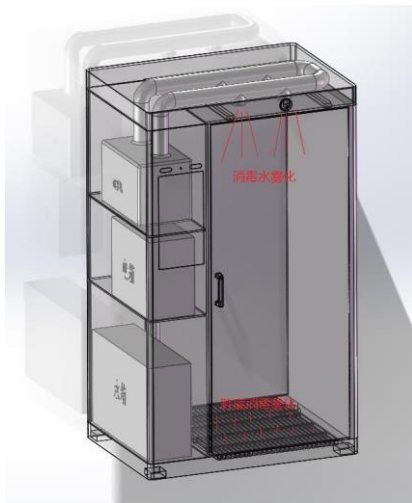
ERST recently developed two products – [WATERLIQ](#) and [ERSTOTIZER](#). According to microbiological laboratory test reports, these products are proven to be effective in significantly and safely reducing infections via aerosol transmission and human-to-human transmission through cross contamination, and are hence useful against the

highly virulent coronavirus. They satisfy the three efficacy criteria¹ set by EPA's policy on enveloped, large non-enveloped, and small non-enveloped viruses.

Water-based disinfectant [WATERLIQ](#) has immediate disinfecting capabilities and has demonstrated effectiveness against viruses similar to the SARS-CoV-2 virus on hard, porous and non-porous surfaces. Therefore, [WATERLIQ](#) can be used effectively against COVID-19 when used in accordance with the directions for use. The Ready to Use (RTU) product can be used for washing and immediate disinfecting and also used with humidifiers, misting, spraying and fogging applications .

[ERSTOTIZER](#) is an anti-bacterial and anti-viral clear coating solution that can last up to 24 months. It has demonstrated effectiveness against viruses similar to the SARS-CoV-2 virus on hard, non-porous surfaces and can be used for all types of smooth hard surfaces and various types of absorbent surfaces to combat infections including the coronavirus.

ERST's other existing and upcoming projects would complement these two products by assisting various markets to achieve long lasting solution to their existing issues.



The new JV has already begun developing additional systems based on [WATERLIQ](#) and [ERSTOTIZER](#). These include a Disinfecting Gantry (see picture on left) to help contain and manage the spread of the COVID-19 virus. By using the [WATERLIQ](#) to apply mist on persons passing through the gantry, the system can achieve immediate disinfecting effect as the fine droplets of [WATERLIQ](#) can instantly kill 99.9% of pathogens. The Disinfecting Gantry could be deployed at entrances & exits at local clusters and quarantine locations to disinfect and prevent further spread of the virus. It could eventually be rolled out as part of the new normal in many locations as governments ease up on their lockdowns and opening up businesses.

For the JV, ERST will oversee development of the gantry and additional product development, as well as the supply chains for the JV. ISDN will leverage its large network of distribution and regional relationships to bring the JV products to market in the Asia Pacific region through market development, vertical solutions, and channel sales. ISDN is also creating a B2C market segment through social media and e-commerce platform in the region.



This JV project exemplifies ISDN's resolute efforts to use its industrial expertise to grow its commercial capabilities as well as contribute world-class solutions to combating the COVID-19 pandemic in Asia, particularly the containment of second-wave infection² and post-pandemic health and safety as

¹ Select Effective Disinfectants for Use Against the Coronavirus That Causes COVID-19
<https://www.infectioncontroltoday.com/covid-19/select-effective-disinfectants-use-against-coronavirus-causes-covid-19>

²Asia Pacific steps up Covid-19 efforts as second wave of infections strike

economies prepare to re-open. The global surface disinfectant market is projected to reach over USD 600 million by 2022, with Asia Pacific as the fastest growing region, according to India & US-based market research and consulting company Grand View Research³.

Commenting on this JV, **Mr Teo Cher Koon, ISDN's Managing Director and President**, said, *"In our steadfast commitment to help contain the spread of COVID-19 and expand our business, the Group has been actively scouting for creative solutions to combat the COVID-19 spread. We are pleased to have the opportunity to work with ERST to offer advanced and environmentally friendly disinfectant products usable in a broad range of applications to combat the COVID-19 pandemic here in the Asia Pacific region.*

As a start, some product samples have already been supplied to Singapore, Malaysia, Indonesia and Australia. With those products, tests are already being carried out in local hospitals and lab tests conducted to prove the effectiveness of our disinfectants against Coronaviruses, H1N1 virus and Poliovirus."

About ERST Project GmbH

ERST Project GmbH ("**ERST**") is a German company that develops and produces innovative surface coatings with a functional long-term effect, cleaning and disinfecting products and chemical intermediates or additives. ERST is dedicated to innovations that enable future-oriented hygiene measures and create the basis for environmentally compatible intermediate products in a responsible and sustainable manner.

For more information, please visit: <https://www.erst-project.de/en/about-us/>

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About ISDN Holdings Limited

Founded on its precision and motion control engineering capabilities in 1986 and listed on the Main Board of the Singapore Exchange Securities Trading Limited since 2005, ISDN Holdings Limited has today transformed into a multi-industry corporation with more than 60 offices spanning key Asian growth markets. ISDN is also listed on the Main Board of the Stock Exchange of Hong Kong Limited since 12 January 2017.

ISDN is dominant in the niche areas of motion control, other engineering solutions and industrial computing. ISDN's customised engineering solutions cater to different industrial sectors including medical, robotics, factory automation, energy, manufacturing, hard disk and semiconductor

<https://www.channelnewsasia.com/news/asia/asia-pacific-covid-19-coronavirus-second-wave-infections-12566132>

³ Grand View Research Industry Analysis

<https://www.grandviewresearch.com/industry-analysis/surface-disinfectant-market>

industries. By leveraging its alliances with strategic partners in Europe and Asia, ISDN is able to combine and thereupon benefit from the best-in-class technology and business systems these collaborations have to offer.

For more information, please visit www.isdnholdings.com

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