

RRI, Navy set for quantum leap in secure communication

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Raman Research Institute (RRI) will collaborate with the Indian Navy's combat systems engineering wing on quantum technologies to develop secure communication channels of strategic importance.

The Bengaluru-based institute entered into a five-year Memorandum of Understanding with Weapons and Electronics Systems Engineering Establishment (WESEE) in Delhi on Thursday.

The partnership was formalised five days after RRI announced a breakthrough demonstration in establishing secure communication between a stationary source and a moving receiver using quantum key distribution.

The Navy said enhancing research in quantum technologies for maritime use cases is in line with India's push for



We have been having discussions on the possibility of using these technologies to aid maritime services. Considering the work we have been doing (on long-distance quantum communication), this was the natural next step to take

- Prof Urbasi Sinha

self-reliance.

Quantum technologies facilitate the secure transmission of sensitive information and minimise the risk of network breaches, making them increasingly critical to advanced military plans.

Prof Urbasi Sinha, who heads the Quantum Information and Computing (QuIC) Laboratory at RRI, said the agreement with WESEE comprised "a broad umbrella" of potential research areas.

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