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### **Notice Regarding the Execution of a Memorandum of Understanding for Joint R&D on Quantum-Dot Comb Lasers**

QD Laser, Inc. (the “Company”) hereby announces that it has entered into a Memorandum of Understanding (the “MOU”) with the Industrial Technology Research Institute (“ITRI”), Taiwan, and the Arakawa Laboratory for Quantum-Dot Devices at The University of Tokyo regarding joint research and development of quantum-dot comb lasers (Note 1) and related optoelectronic technologies.

The MOU establishes a framework for international collaborative research based on the Company’s strengths in quantum-dot semiconductor laser technologies, with a view toward applications in next-generation optical interconnects for AI data centers as well as broader electronic–photonic convergence (Note 2) architectures.

A quantum-dot comb laser is a light source technology capable of emitting multiple equally spaced wavelengths simultaneously from a single chip. In conventional optical communication systems, separate laser chips are typically required for each wavelength. If successfully realized, this technology may enable the generation of multiple wavelengths from a single chip, potentially contributing to reductions in the number of light sources, implementation footprint, power consumption, and overall system cost.

In particular, within Co-Packaged Optics (CPO) (Note 3) architectures—where high-density optical integration and lower power consumption are key challenges—this technology may be considered one of the candidate enabling technologies.

The execution of this MOU is positioned as part of the Company’s broader strategy to enhance the value of its quantum-dot light source technologies and to strengthen international collaboration.

The MOU is non-binding in nature. The parties will initially conduct a Proof of Concept (PoC) phase to evaluate technical feasibility and performance. Based on the results, the parties plan to discuss the possibility of entering into a more definitive joint research agreement.

This matter is not expected to have a material impact on the Company’s financial results for the fiscal year ending March 2026. The Company will promptly disclose any material developments if and when required.

#### (Note 1) Quantum-Dot Comb Laser

A semiconductor laser technology based on quantum-dot materials that can generate multiple equally spaced wavelengths (comb-like spectrum) from a single device. In high-capacity, low-power optical transmission systems such as those used in AI data centers, this approach may contribute to reducing the number of light sources and improving efficiency.

#### (Note 2) Electronic–Photonic Convergence

A technological concept referring to the high-density integration of electronic and photonic circuits to achieve both higher data processing and transmission speeds and lower power consumption. It is regarded as an important technological direction in AI and next-generation semiconductor systems.

#### (Note 3) Co-Packaged Optics (CPO)

A technology that integrates optical communication devices (such as light sources and modulators) within the same package as CPUs or AI accelerators. It is being explored as a means to address interconnect losses and power consumption challenges in next-generation AI data centers.

#### About ITRI

The Industrial Technology Research Institute (ITRI) is a world-leading R&D organization dedicated to innovating a better future. Founded in 1973, ITRI has played a vital role in transforming Taiwan’s industries from labor-intensive into innovation-driven. Over the years, ITRI has incubated hundreds of startups and spinoffs, including well-known companies such as UMC and TSMC. Headquartered in Taiwan, ITRI also operates offices in the U.S., Germany, the UK, Japan, and Thailand. For more information, please visit <https://www.itri.org/eng>.

#### About the Arakawa Laboratory, The University of Tokyo

The Arakawa Laboratory (Quantum Dot Lab) at The University of Tokyo is a research group dedicated to quantum functional devices based on nanostructures. As part of the Nanoelectronics Collaborative Research Center of The University of Tokyo, the laboratory promotes advanced research through industry–academia collaboration and interdisciplinary partnerships.

The laboratory aims to understand and control electronic and optical properties in nanoscale structures such as quantum dots and photonic crystals, and is engaged in the development of next-generation nanophotonic devices including quantum-dot lasers and single-photon sources. Through collaboration with domestic and international universities and industrial research centers, the laboratory also promotes technology transfer and social implementation of research results.