

Technology Transfer of “Autonomous Gamma Dose Logger”

Autonomous Gamma Dose Logger (AGDL) is a radiation monitor developed at SQRMG, IGCAR to measure environmental radiation in a wide range from 100 nGy/hr to 5 Gy/hr. The AGDL uses Geiger-Muller tubes to measure the environmental gamma dose rate. It transmits the data through wireless communication and backs up the data in a portable data logger. The radiation monitoring system is powered by solar power system with battery backup, and is installable at any site with a mechanical structure. This system can be used for both routine and emergency radiation field monitoring purposes in nuclear installations and as a general environmental radiation monitoring equipment in other places. IGCAR’s AGDL has distinct features such as wireless (RF) communication, off-line local data logging, rapidly and remotely deployable even across rough terrains and seamless expansion of networking. Valuable inputs for Emergency Decision Support System can be provided by the AGDL. Currently ~28 numbers of in-house made AGDL systems are operating successfully at DAE Kalpakkam site and connected to the Decision Support System for real-time radiation field inputs.

The AGDL technology, developed to meet the Atma Nirbhar Bharat goals of our government, was transferred to M/s Ideal Sensors, Chennai on 06.December.2021. In a brief event arranged by Incubation Centre-IGCAR, the technology license documents were handed over by Shri S. Athmalingam, Associate Director (RSEG, SQRMG) to Ms. Krithika Rajagopalan and Shri A. K. Gowri Ponraj from M/s Ideal Sensors, Chennai. Dr. N. Subramanian, Head, Incubation Centre-IGCAR, Dr. C. V. Srinivas, Head, EAD, SQRMG, Dr. S. Chandrasekaran, Head, EnAS, EAD and other colleagues from SQRMG and IC-IGCAR attended the event. For more information on this technology and various other technologies developed at IGCAR, IC-IGCAR can be contacted at the email id: incubation@igcar.gov.in.



Transfer of IGCAR’s Autonomous Gamma Dose Logger technology to M/s Ideal Sensors, Chennai on 07.Dec.2021. (From L-R): Shri S. Athmalingam (Associate Director, RESG, SQRMG), Dr. N. Subramanian (Head, Incubation centre-IGCAR), Shri A. K. Gowri Ponraj (M/s Ideal Sensors) and Ms. R. Krithika (M/s Ideal Sensors)