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AMR Challenge 2024-25, in collaboration with GAMRIF, announces 9 winners

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To foster the identification and development of world-class AMR-focused innovative solutions

The Centre for Cellular and Molecular Platforms (C-CAMP) Antimicrobial Resistance (AMR) Challenge 2024-25 supported by the UK Department of Health and Social Care's Global AMR Innovation Fund (GAMRIF), under the aegis of India AMR Innovation Hub, has announced **nine winners** of its National Call in India.

The winners shall be supported by C-CAMP in India in collaboration with the UK Department of Health and Social Care's Global AMR Innovation Fund (GAMRIF) to foster the identification and development of world-class AMR-focused innovative solutions to tackle various aspects of AMR in the environment in India and for the benefit of low and middle income countries (LMICs).

The winners include-

Foundation for Neglected Diseases Research (FNDR) - A device to deplete antimicrobial residues from wastewater, using a cartridge-based device with a patented mixture of activated charcoal and plant-based materials.

Biomoneta Research: qAMI (Quantitative Airborne Microbial Index) - A singular technology combining detection of air-borne total microbial load and pathogenic microbes in hospital set-ups, using AI/ML platform and encompassing different microbial attributes, combined with the classic microbiological approach.

D-NOME's pocket PCR device: Rapid and accurate on-field detection and identification of Antibiotic-Resistant Bacteria (ARB) & Antibiotic Resistance Genes (ARGs) in aquaculture farms and other wastewater sources.

Vividew Innovations - A novel innovation to remove residual antibiotics & antibiotic-resistant bacteria from wastewater in hospital sewage treatment plants (STPs). A combination of technologies based on membrane filtration and advanced photo-catalytic oxidation.

Diagopreutic - Detection of residual antibiotic and pathogen identification in water samples from aquaculture farm effluents, using a colorimetric method, based on the differential nitro-reductase activity of the bacteria and their ability to grow in presence of the specific antibiotic.

Mylab Discovery Solutions - Rapid detection of pathogens from wastewater samples and detection of environment-related ARGs. The technology involves an in-house developed nucleic acid extraction kit and an advance multiplexed quantitative RT-PCR technology, capable of identifying a diverse array of pathogens as well as an extensive spectrum of ARGs.

Huwel Life Sciences: Quantiplus® Environmental Surveillance Kit - Real-Time PCR detection for typhoid and ARGs in environmental samples. The RT-PCR kit detects a wide spectrum of ARGs, as well as the typhoid specific gene along with its resistance genes.

Amrita Vishwa Vidyapeeth - Development of affordable POT (Point of Testing) device for monitoring of AMR in the environment, by an impedance-based microfluidic device, using a lytic phage-based detection technology. The innovation, as proposed by Dr. Bipin Nair and his team, is capable of detecting and identifying various pathogens of clinical relevance and can be used for rapid and accurate detection of specific bacteria.

Indian Intitute of Science (IISc) - Tackling AMR emergence through effluent treatment using robust catalytic enzyme mimetics. The MONZymes based technology, as developed by Dr. Subinoy Rana and his team, is capable of effectively degrading residual antibiotics from effluent wastewater and also exhibit antibacterial activity, through advanced (photo)catalytic activity.