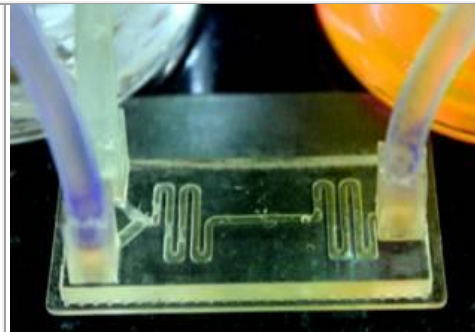


Micro-Fluidic Lab-On-a-Chip Sensor to Detect and Monitor Viscosities for a Variety of Biochemical Applications

The project envisages the platform technology development for a Microfluidic based Micro-viscometer, able to detect and monitor in a variety of biochemical applications where viscosity being the sensing parameter. Simulation and experimentation methods are being developed, followed by characterized and optimized; by optical and electrical sensing mechanisms. Initially, such devices are being tested for fuel adulteration and biofuel blending on lab-scale with a goal to optimize it on industrial setting. So far from pre-project sanctioned work, one Indian patent has been filed. Various medical practitioners have been consulted to understand the application of micro-viscometer in medical diagnostics.



Optical Micro-viscometer in Testing
1



Optical Micro-viscometer in Testing 2