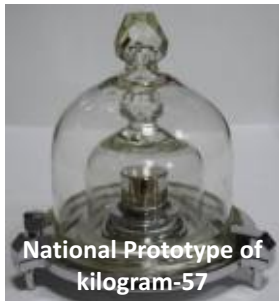


WORLD METROLOGY DAY CELEBRATION - 2018

JOIN US IN THE CELEBRATION OF WMD-2018 BY
CSIR-NATIONAL PHYSICAL LABORATORY & METROLOGY SOCIETY OF INDIA
 PRESENTATIONS ON THE FOLLOWING METROLOGY TOPICS



National Prototype of kilogram-57

Apex Level Standards

Apex level calibration for traceability in Physico-Mechanical, Electrical & Electronics Parameters: Mass, Length, Optics, Temperature, Force, Pressure, Acoustics, Fluid Flow, AC Voltage & Current, Power, DC Voltage, LF-HF-Impedance, Inductance, Capacitance, for improving Research & Technology and strengthening the Industries.



Josephson Voltage Standard

Time & Frequency

CSIR-NPL generates, maintains & disseminates IST, traceable to UTC. R&D on Atomic Clocks. Time synchronization and Calibration for strategic sectors. Aiming for nation wide synchronization $\leq 1s$.



Bank of Cesium Atomic Clocks



Constant evolution
 The International System of Units

Microwave

Testing and calibration facility for Impedance attenuation, Power, E-Field, SAR, Radiation power density for microwave with increasing utilities concern for health safety.



System for SAR Measurements

Environmental

Precise, traceable measurements for atmospheric pollutants; Primary reference gas mixture; Testing/calibration facility for continuous emission/ambient air monitoring systems and for PM_{2.5} & PM₁₀ samplers.



Primary Ozone Standard



Need for BNDs in India; Development of BND at CSIR-NPL, for accreditation, Assigning values to material, Traceability to RMP, BND™ Trade mark, Global recognition.

Venue : CSIR-NPL Auditorium,
 New Delhi
 Date : May 21, 2018
 Time : 10:00 AM

Bio-Medical

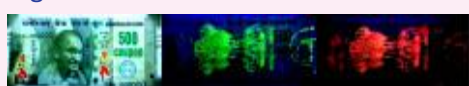
Calibration of biomedical equipments: CSIR-NPL takes lead to set up bio-medical equipment standard for defibrillator analyzer to support the Medical Device Rule 2017 and to provide Healthcare Services.



Defibrillator/ Analyzers

Luminescence

CSIR-NPL developed indigenous Bi-luminescent Security Ink for protecting Currency, Passports, Cheques and other Sensitive Documents from Counterfeiting which is an hour of need for Nation.



Emblem printed using biluminescent ink

Solar Energy

Establishment of primary and secondary standard solar cell calibration facility. Solar PV training programs. To create traceable module test centre.

