

# One day Seminar on "Roadmap for the Production & Certification of Certified Reference Materials in India"

16<sup>th</sup> March, 2018 (10:00 – 17:00 hrs) at CSIR – NPL, New Delhi – 110 012

Supported by Ministry of Commerce, Govt. of India

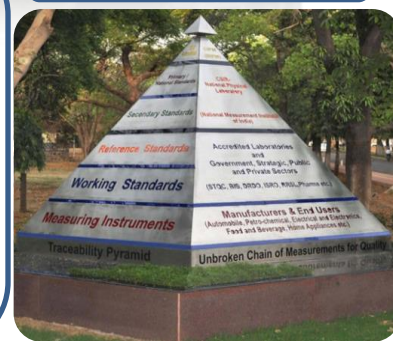


The National Measurement Institute (NMI) of India



Ministry of Commerce, Government of India has recently sent a study delegation to NIST, USA under the Chairmanship of Director, CSIR-NPL for the indigenous development and certification of "Certified Reference Materials (CRMs)". It may be noticed that CSIR-NPL, the National Measurement Institute (NMI) of the country has already trademarked the Indian reference materials as BND™ (Bharatiya Nirdeshak Dravya). This delegation (comprised of CSIR-NPL, CSIR-CIMFR, NABCB, NABL, QMS Institute of Quality Confederation of Indian Industry, Mint SPMC, Kantanga metals, BIS and Ministry of Commerce and Industry) has prepared a Road map for indigenous production of CRMs, which will be discussed during this seminar.

Traceability pyramid



## TOPICS :

- ✓ Summary of NIST, USA visit and the road map,
- ✓ BND™ : The Indian certified reference Material,
- ✓ CRMs for Lab accreditation by NABL,
- ✓ BND development at CSIR-NPL,
- ✓ Interaction with Reference Materials Producer (RMPs).

## Need of BNDs in India

- ✓ BND's for sophisticated Instruments
- ✓ Sediments, soils, ores and particulates
- ✓ Materials (cement, paints, textiles, glasses, adhesives, metals, oxides etc.)
- ✓ Biological Fluids and materials (Blood serum, renal fluids, tissues, bone, hair, etc.)
- ✓ Engineered nanomaterials (inorganic, organic, biomaterials etc.)
- ✓ Potable water
- ✓ Food (nutritional contents, contaminants etc.)
- ✓ Fuels (Coal, coke, petroleum products, bio-mass, etc.)

## CSIR-NPL provides :

- ✓ Traceability: To SI unit,
- ✓ Assigning a value to another material,
- ✓ Certification,
- ✓ BND™ trademark,
- ✓ Verification of accuracies of results,
- ✓ Calibration of equipments,
- ✓ Validation of laboratory developed non- standard test method,
- ✓ Global recognition.

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