

RRSL BHUBANESWAR

Aims And Objectives:-

The Regional Reference Standard Laboratory (RRSL), Bhubaneswar has been setup to cater the needs of the State Government and the industries of the eastern zone of the country in respect of the legal metrology requirements. RRSL (Eastern Zone) has been established at P.O-.RRL, Near I.I.T. Kharagpur Extn Centre, Nayapally, Bhubaneswar-751013 (Odisha), 10 km away from Bhubaneswar Railway Station. It is having very good double story building in 1.5 acre land. The plinth area of building is 2000 m² which contains 12 laboratories, conference hall, climatic chamber, workshop, one newly established flow meter testing laboratory, generator room etc. There is one guest house of area 238 m². The building structure is of RCC framed with brick in fill, PVC tile flooring has been provided in conference room and air conditioned laboratories and granite work has been done on platforms in the laboratory rooms.

Organization

The Regional Reference Standard Laboratory is the laboratory of Government of India and functions under Director Legal Metrology, Government of India, Department of Consumer Affairs, Ministry of Consumer Affairs, Food and Public Distribution, Krishi Bhawan, New Delhi and it is located at P.O-.RRL, Near I.I.T. Kharagpur Extn Centre, Nayapally, Bhubaneswar-751013 (Odisha).

The laboratory carries out its testing and calibration works according to the Legal Metrology Act – 2009, The Legal Metrology (General) Rules – 2011, The Legal Metrology (National Standard) Rules – 2011 etc. It also carries out its testing and calibration / verification in accordance with the requirements of ISO/IEC 17025 : 2005. We receive various guidelines in respect of our testing from the Director, Legal Metrology, Department of Consumer Affairs, Government of India, Krishi Bhawan, New Delhi time to time with reference to amendment in Rules and Regulations.

Types of Services Offered

The laboratory maintains Reference Standards of Mass and length of appropriate accuracy to provide following services-

- Verification of Legal standards of the eastern states - Odisha, West Bengal, Bihar, Jharkhand, Chhattisgarh, a part of Andhra Pradesh , Andaman Nicobar Islands (UT)
- Calibration of mass, length, volume, pressure gauges, loads cell, thermometer, weighing and measuring instruments.
- Model approval tests of weighing and measuring instruments.
- Training and Seminars on weights and measures.

Major Field of Activity

- Maintenance of Reference Standards of mass
- Verification of the following legal standards for the legal metrology department of the state govt.
 - (i) Secondary Standards Weights, Capacity Measure and Length Measure.
 - (ii) Secondary Standards Balances.
 - (iii) Working Standards Weights, Capacity Measures and Length Measures.
 - (iv) Working Standards Balances.
- Calibration of analytical weights/dead weights of the following accuracy class used by the industries for acquiring IS/ISO 9000 certification.
 - (i) F 1 Class accuracy - 1mg to 10 kg
 - (ii) F 2 Class accuracy - 1 mg to 20 kg
 - (iii) M1 Class accuracy - 100 mg to 50 kg

 - (iv) M2 Class accuracy – 1g to 1000 kg.
- Electronic balance of accuracy class I, II, III, and IIII
- Glass wares - Volumetric flasks, burettes, pipettes, milk pipettes, single mark pipettes, measuring cylinder as per IS specifications.
- Dimensional metrology - Vernier caliper, micrometer, dial gauges, height

gauges, depth gauges, end rods, internal and external micrometers, Steel scale, measuring tape etc.

- Load Cell (20 kg to 500 kg)
- Thermometers (range from 0 to 300 C)
- Pressure gauges (hydraulic) - 1100 bar
- Hydrometers
- Test sieve as per IS specifications
- Flow meters
- Carrying out Model approval tests of weighing and measuring instruments as per the Legal Metrology Act and rules made there under.