

Tech Talk

Monthly Newsletter by Spectro Group

Director's Desk

With great enthusiasm, I want to thank you for making our Newsletter a success. Your positive response and feedback for our Newsletter encourages us to present before you the best current articles. We are happy to share with you, our monthly Newsletter "Tech-Talk" which is designed to be an elemental source for leading information related to developing technologies, ingenious techniques and innovative approaches. This newsletter is contemplated to highlight electrifying forthcoming activities and resources of our organization.



We invite you to a new paradigm created by Spectro to examine the resources on our website which includes our amplifying services using science to harness cutting-edge technologies.

Kuldeep Dhingra

Managing Director

Brief about Spectro

Spectro Group of companies has created a globally recognized position in the field of Testing, Calibration, Auditing, Certification, Training, Inspection, R&D, Special Purpose Equipment Designing & Manufacturing and various other activities.

Spectro Analytical Labs Ltd. is a self-reliant Multidisciplinary Laboratory providing top class services. We are also in a process to explore services in the field of Geo-Technical, Welding, Safety Compliance, Clean Development Mechanism, Environment, etc.

Spectro Lab Equipments (P) Ltd. is one of the reputed manufacturers of Environment & Coal Laboratory Equipments and also deals with their sale and service setups. We are the exclusive manufacturers of equipments which include RCPT, Bomb Calorimeter, Ash Fusion Tester, Salt Spray Chamber, Proximate Analyzer and Stress Relaxation Tester.

Spectro Weld Institutes (P) Ltd. provides exemplary short-term courses and full time courses on specialized topics. The welder gets certification by **AWS (American Welding Society)**. We are creating a pool bank of trained and certified welders for ready deployment for projects.

Indian Toxic Alcohol Creating Massacre in UP

More than 32 people have lost their lives and over hundreds of people are fighting for their lives in Hospitals by drinking toxic alcohol in Uttar Pradesh, India. A Number of villagers in Lucknow and Unnao district have fallen ill after ingesting poisonous liquor. Majority of the victims were among those, who had assembled to watch a cricket match on January 11 in a village near the capital.



The news of people dying with consumption of cheap country liquor has become very common.

Contd.

One more feather in our cap: BIS for Safety Testing of Electrical & Electronic Products

Spectro Analytical Labs Ltd., Greater Noida has successfully added another benchmark by achieving **Recognition** from BIS in the field of Electrical and Electronic Testing for Safety Compliances of various Consumer Electronic Products like Audio, Video and similar Electronic Apparatus as well as Information Technology Equipment. We will be now providing world class facilities to meet the compliance of '**Electronics and Information Technology Goods Order 2012**' (**Requirement for Compulsory Registration**), mandating standards adopted by the Government of India.

SLE participating in the 21st IEFT 2015

21st International Engineering & Technology Fair (IEFT 2015), a flagship event is being organized by Confederation of India Industry (CII) from 26th to 28th February 2015. Spectro Lab Equipment Pvt. Ltd. cordially invites you to this platform to grab the opportunity and share your requirements and have a face to face interaction with us. The aim is to present and demonstrate before you, our measurement solutions along with their applications in various fields. Our venue will be Hall No. 14, Booth No. 30, Pragati Maidan.

Contd. (Indian Toxic Alcohol Creating Massacre in UP)

The Press Trust of India quoted that the state's chief medical officer SNS Yadav has mentioned that 123 people had already been admitted. On which the Doctors added that condition of some of the patients is extremely serious and they had to put them on ventilators and many of them have lost their eyesight.

Despite of the toxicity, methyl alcohol is being mixed with ethyl alcohol because of its low cost. "The large containers of chemicals were added by the shopkeepers for making homemade alcohol. The shop owners are arrested and the chemicals have been sent for laboratory testing", the officials said.

"A dozen officials had been suspended from various local departments for their negligence. The guilt will not be spared", Rajendra Chaudhary, Govt. spokesman said to AFP news agency.

Portable Breath Alcohol Testers (PBTs) are significant tools used by Law Enforcement to enhance roadside checkpoint potency. When a user exhales into a breath analyzer, ethanol present in their breath gets oxidized into acetic acid and the atmospheric oxygen is reduced. The microprocessor measures the electric current generated during this reaction and an approximate value of overall blood alcohol content (BAC) is displayed by the Alcosensor.

A perfectly calibrated breath alcohol tester can accurately measure the breath alcohol content. Thus, every State, using PBTs have stringent procedures for their maintenance as well as calibration.

Spectro is the only lab providing facilities for calibration of alcohol breath analyzer.

Spectro has all the facilities to test various Food & Agro Products and all type of Beverages including alcoholic, non alcoholic & carbonated beverages.

Acknowledgement

BBC News India

Medscape.com

Got News WIRE

Lifeguardbreathtester.com



Is Your Product BIS Compliant?

The Requirement for Compulsory Registration Order (RCRO), amendment Order 2013, which has been issued by the Department of Electronics and IT (DeitY) makes it mandatory to be compliant with the specifications of BIS for 30 IT and electronic products. Considering that most of the IT products are being manufactured outside India, only those products which are BIS compliant are allowed to be manufactured, imported and sold in India.

There are 30 categories declared by the government to withstand BIS testing and recognition which includes TV sets and monitors, wireless key boards, tablets, telephone answering machines, set-top boxes, electronic music systems, microwave ovens, power adaptors for IT equipments, power adaptors for audio, video & similar electronic apparatus, UPS/ invertors, batteries, LED lamps, LED luminaires, mobile phones, copying machines, smart card readers, mail processing machines, power banks for use in portable applications and various other products.

In case, an imported product is not BIS compliant, the shipment can be seized by the custom authorities. Under this regulation, the DeitY and the BIS are allowed to raid and confiscate those premises which are manufacturing or selling the notified products.

The manufacturer, distributor or reseller can also be booked under the Contravention of BIS Act 1986, if their products are found to be non-compliant. The consumers are permitted to register a case in consumer court, in case they find a missing or fake BIS mark on the product notified.

Attaining BIS certification is a challenging task as the number of labs providing BIS certification are not enough which is a matter of concern for the vendors because they face delay in launching their products in India. Nevertheless it can help to solve various disputes; the industries are facing and will also inculcate confidence in the consumers as it will boost the quality and safety standards of the products.



The slogan "Jago Grahak Jago" is an initiative taken by the Government towards the Consumer Education & Awareness. Compliance Statement "Self Declaration, Conforming to IS _____R-XXXXXXX (unique 8 digit number)" on the products made compulsory for registration with BIS based on the compliance to Indian Safety Standards.

Spectro is privileged to be recognized through BIS for providing services related to Electrical & Electronic Testing for Safety Compliances of various Consumer Products.

Acknowledgement

CRN India

BusinessStandards.com

Technical Showcase: AAS

Atomic Absorption Spectroscopy (AAS) is a technique for determining chemical elements quantitatively by using the absorption of electromagnetic or mass spectrum. This is done by reading the spectra produced when the sample gets excited by radiation. The atoms absorb ultraviolet or visible light and make transitions to higher energy levels. This technique measures the amount of energy in the form of photons of light which get absorbed by the sample.

This technique is useful in determining the concentration of a particular element present in a sample. AAS performs efficiently and accurately. It can determine more than 70 different elements in a solution or in solid samples which are used in Biophysics, Toxicology and Pharmacology Researches.



Spectro owns this high-tech instrument to serve various industries like Petroleum Industries, Cosmetics, Chemicals, Food & Agriculture, Water Testing, Pharmaceuticals as well as the Quality Control Laboratories. Spectro also organizes Training Programs to provide an opportunity to gain in-depth knowledge and to have hands-on practice on AAS instrument.

Major Activities

Testing

Calibration

Training

Inspection

Clean Room Validation

R&D

- Ü Metals & Alloys
- Ü Non Destructive Testing
- Ü Rubber & Polymers
- Ü Food and Agro Products
- Ü Coal, Solid Fuels & Petroleum
- Ü Electrical & Electronics
- Ü Building Materials
- Ü Minerals & Chemicals
- Ü Leather & Textiles
- Ü Water & Environment
- Ü Paper & Packaging Materials
- Ü Hazardous Substances

Our Joint Venture Labs

Spectro Testing & Research Center Pvt. Ltd. (Jaipur)

Spectro Research Lab Ventures (P) Ltd. (Kanpur)

Spectro Testing (P) Ltd. (Jammu)

Spectro SSA Labs (P) Ltd. (Mumbai)

Spectro Global Experts Pvt. Ltd. (Bhubaneswar)

Spectro Shyam Labs (P) Ltd. (Kolkata)

Our Collection Centers

PATA (U.P.)

Roorkee (Uttarakhand)

Durgapur (West Bengal)

Jaisalmer (Rajasthan)

Hyderabad (Telangana)



We will be pleased to receive your valuable queries, feedback and suggestions on our email ID: newsletter@spectrogroup.com

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