



UNITED NATIONS
INDUSTRIAL DEVELOPMENT
ORGANIZATION



LabNet



LABNET

A UNIDO & WAITRO Initiative





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Vision:

LabNet



- **A one Stop Shop for Laboratory Development**
- **Customized info by Lab Types**
- **Platform to share Knowledge and Expertise**
- **Access to Information Resources**



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Set-up:

LabNet



- **“Open to all” – Area**
- **Registered Laboratories**
- **One-time individual Users (trainees)**
- **Portal Links to Member Organizations (Providers)**



Available Information:

LabNet



For Labs in Planning, under Accreditation, or already accredited:

- *Lab Design & Layout, Environmental control systems, Equipment, Staffing, Training, Supplies, Equipment Calibration, etc.*
- *Investment Needs and Financial Viability, Business Plan, Budgets (Operational, Maintenance, etc.)*
- *Accreditation Requirements and Quality System Documentation,*
- *Certified Reference Materials, Proficiency Testing Schemes, Measurement of Uncertainty, Method Validation, Measurement Traceability, etc.*
- *Best Practices, Case studies*
- *Job Opportunities, Consultants, Standards & Guides, Links to Accreditation Bodies, PT Providers, etc.*
- *News Alert, Event Calendar, Discussion Fora, Training Opportunities, etc.*

Also useful for: Governments, Academia, Researchers, Donors



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Key functions

Design and Layout

Equipment and Consumables

Staffing

Proficiency Testing

CRM and other Reference Materials, Literature

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A walk-through

Dr. S. P. Vasireddi,

**Chairman and Managing Director
Vimta Labs Ltd.
Hyderabad, India**

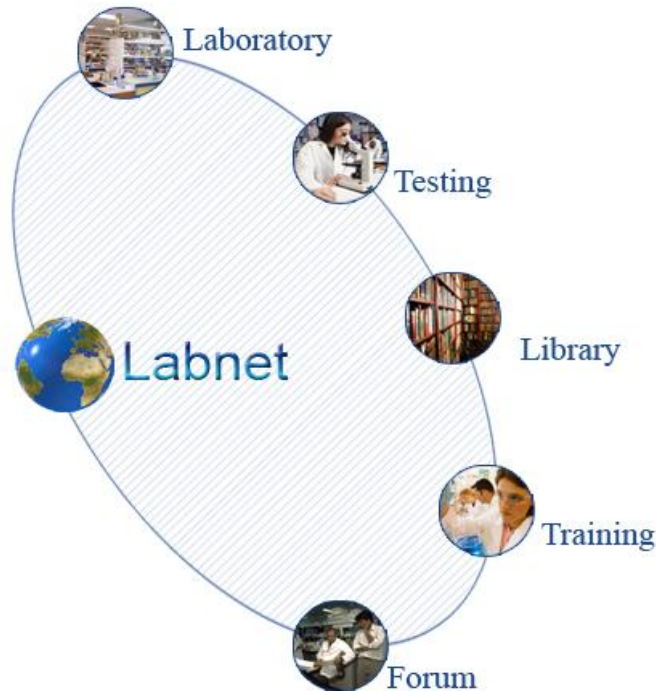


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About Us

LABNET is a web based system with information in the area of standards and conformity assessment to assist developing countries obtain rapid information to support their efforts for laboratory accreditation. Also in the area of standards and conformity assessment is the development of a joint programme between UNIDO and WAITRO and other global players to address issues of Certified Reference Materials (CRM) and Proficiency Testing.

UNIDO agreed to provide resources for the setting up of LabNet in the framework of its various regional programmes. WAITRO agreed to identify member organizations that could participate in the project and obtain their commitment to host and maintain the LabNet system on a rotational basis. With respect to CRMs a link with WAITRO member organizations in India, China or Korea was proposed and a link with India's National Accreditation Board for Testing and Calibration Laboratories (NABL) was proposed for the Proficiency Testing. A meeting of experts to decide on the modalities of the identified areas was tentatively scheduled for December 2005 at SIRIM Berhad, in Malaysia.



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Labnet News

Vienna, Austria

UNIDO - WAITRO Mini Expert Group Meeting 30th & 31st October 2006 Held @ Virmta Labs Limited Hyderabad , India

Event Calender

Nov - 2007						
Mo	Tu	We	Th	Fr	Sa	Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
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Home

LABNET provides access and dissemination of laboratory and activity information to its users. LABNET is under the umbrella of the UNIDO, and its primary function would be to provide information to the laboratories and the persons associated with the laboratories. The LABNET will be covering the testing and calibration laboratories from all fields of science and will have a wide database to cover all laboratories both accredited and non-accredited from all regions of the globe.

The database of the laboratories will be accessible to the users of LABNET which will enable them to contact each other directly, or through the message board of LABNET, where they would be able to post their problems relating to their work, which could be answered either by the people who are experts of the field (Chosen by UNIDO) or the other members of the LABNET.

LABNET provides a feature where users looking for calibration laboratories will be able to search for the nearest laboratory which would be able to offer the calibration or testing service required by the industry.

The inter-country trade is growing day by day and the countries are putting up different non-tariff trade barriers, such as various tests to confirm about the quality of the products entering their country. LABNET will have a section for International trade which will be providing information about the various tests that are mandatory for exporting goods to a country which will be very useful for the exporter community all over the world.

LABNET Vision

- Provide access and dissemination of laboratory and activity information
- Share experience with respect to laboratory design, management, development, maintenance, capabilities
- Interaction and response in various issues related to PT, CRM, traceability, trade related issues
- Avenue for promotion / sourcing of laboratory and related services
- Facilitate information to industry / trade on testing / calibration and product specific information

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Key Labs required for Developing Countries

To support the industrial growth, to ensure compliance and to protect the consumer rights, it is necessary to have laboratories catering to different fields of testing. Each field asks for a suitable design, infrastructure, equipment and technical expertise to serve the required testing purposes.

Some of the fields of testing are discussed in the individual links given above.





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Microbiology



Microbiology

Microbiology is the study of microorganisms, which are unicellular or cell-cluster microscopic organisms. This includes eukaryotes (with a nucleus) such as fungi and protists, and prokaryotes (without a nucleus) such as bacteria and certain algae (though viruses are not strictly classed as living organisms). Although much is now known in the field of microbiology, advances are being made regularly. The most common estimates suggest that we have studied only about 1% of all of the microbes in any given environment. Thus, despite the fact that over three hundred years have passed since the discovery of microbes, the field of microbiology is clearly in its infancy relative to other biological disciplines such as zoology, botany or even entomology.

Details of facilities and environment for both the categories are given in the following models.

EA - EA-Accredn. for Sensory Testing Labs

Link: www.simal.it/docs/EA-4-09revo1.pdf

APLAC - APLAC Guidelines for Food Testing Laboratories APLAC TC007

Link: http://www.aplac.org/documents/web_docs/tc_007.pdf



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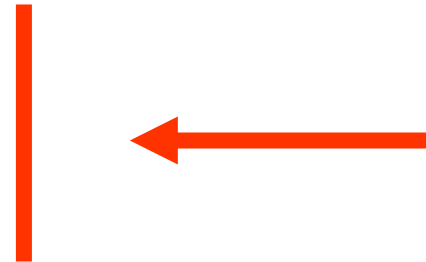
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Technical Requirements

Many factors determine the correctness and reliability of the tests and calibrations performed by a laboratory. These factors include calibrations from:

1. Human factors
2. Accommodation and environmental conditions
3. Test and calibration methods & Method Validation
4. Equipment
5. Measurement traceability
6. Sampling & handling of test and calibration items

The extent to which the factors contribute to the total uncertainty of measurements defers considerably between tests and between calibrations. The laboratory shall take account of these factors in developing test and calibration methods and procedures, in the training and qualification of personnel and in the selection and calibration of the equipment it uses.





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Knowledge Center

e-magazines

This section contains links to e-magazines from different organization globally on various fields of testing.

Microbiology	Chemistry	Metrology	Genetics	Food Testing
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Thank You !

***Questions and
Suggestions
Please***