



Electronics And Quality Development Centre

The background of the page is a collage of images related to a laboratory and quality control. At the top, there is a close-up of a hand holding a small electronic device. Below this, there are images of laboratory equipment, including a large blue and orange industrial machine with pipes and valves, and a large anechoic chamber with a green scissor lift inside. The right side of the page has a solid orange background.

Introduction

EQDC, set up by IMD, Govt. of Gujarat

We are only Self Sustained National Level Laboratory in the country, well-known for testing, calibration, quality advisory services, TPI, Educational Training and Research & Development Activities.

ISO 9001: 2008 Certified facilities, NABL Accredited , BIS Recognised Laboratory & DSIR recognised R&D Centre.

Vision

"To provide World Class Services in Calibration, Testing& Training in Quality Awareness".

Mission

To be a key facilitator in making Industries/IT Organizations and users to achieve their quality products by meeting compliance to National and international standards and compete globally by providing, Calibration, Testing and Quality Services".

Quality Policy

Provide quality calibration, testing, third party inspection, training, consultancy and R&D services in accordance with stated methods and customer's requirements to win their confidence and trust.

Provide prompt service to meet customer's expectations.

Initiate our personnel to enhance knowledge, leadership and professional competence and maintain consistent credibility. Our people are our best assets.

Continual Improve in Services to the Customer and Management System.

Effectively communicate, understood, implement and maintain the Quality Policy and Procedures throughout the organization. Comply with the International Standard ISO/IEC 17025:2005, ISO 9001: 2008 and reflect the essence of above policy.



Strength

- Manpower
- Infrastructure
- Equipments
- Revenue
- Human Resource Development

Services

- Development of Industrial Clusters.
- Quality Facilitation Centre for MSMEs



Services at a Glance

- Testing and Calibration in all engineering fields
- Consultancy Services For ISO & NABL Certification-99 organization benefitted so far.
- Third Party Inspection : GWSSB, CED, GRIMCO, SSNNL, Irrigation department GoG & Municipalities etc
- Energy Auditing- 25 organization .
- Research and Development - 45 projects
- Validation And Verification of Items/ Specification for all Engineering Fields- More than 100 nos.
- Technical Support To Graduate / Post Graduate Students For Projects & Training - 153 nos.

The broad activities covered by the centre are as under

- Calibration of test and measuring instruments for parameters such as Temperature, Pressure, Dimension etc
- Environments/ type testing & evaluation of electronic components and products
- Burn in screening of components
- Provide training & promote quality awareness
- Third party testing & acceptance inspection
- Consultancy on technology, ISO 9000 & Total Quality Management
- Product development support
- Standard libration (Technical Information Centre)

Fields of Services

- Electro Technical Calibration
- Testing Elec. Elect/ Temp./ Press., & Dim.
- Third Party Inspection
- Consultancy & Training
- Electrical Motor Testing
- Product/ Electronics Safety
- Nodal Agency for infrastructure quality monitoring
- Quality Facilitation Centre
- Software/ Hardware Testing
- Energy Meter Testing/ Energy Auditing
- Flow Measurement
- Innovation, Research and Development
- Rotating Machines for energy Efficient
- Medical Instrumentatio
- EMI/EMC/ CE Marking
- Solar Photovoltaic Centre
- High precision Electronic Cal. Centre
- Energy Meter Testing/ Energy Auditing



SERVICES OFFERED

EQDC provides Quality enhancement professional services like :

- ▶ **Calibration of Industrial / process instrumentation & Control**
- ▶ **Calibration & Testing of Medical / Hospital Instrument / Equipments**
- ▶ **Testing of machines,** assembly / sub-assembly / products / components
- ▶ **Consultancy for Quality System Development** e.g.; ISO 9000 / 14001 / ISMS 27001 / NABL / NABH / CE Marketing
- ▶ **Training** Programs on Quality System, Calibration, Testing
- ▶ **Software Testing & Training**
- ▶ **Energy Auditing**
- ▶ **Third Party Inspection & Validation/Verification of Technical Specifications**
- ▶ **Development Assistance** of product/process
- ▶ **On site Testing calibration service**

Research & Development

- ▶ Application oriented R&D activities are undertaken by EQDC from varied industry groups, for quality enhancement of their products / industrial processes.
- ▶ EQDC is recognized R&D Institute by DSIR (Dept. of Scientific & Industrial Research) Govt. of India, It has been involved in various R&D projects.
- ▶ Electricity generation by non conventional energy resources, e.g. Domestic Wind Mill, Solar PV- on grid & off grid testing.
- ▶ Radial Gate Design to SSNNL has been Provided by EQDC.
- ▶ The Testing & Calibration Facilities of EQDC is being utilised by our customers for development activities of their products & industrial processes. Customised Product Development is also undertaken by EQDC.
- ▶ The academic institutes, engineering organizations utilise EQDC's development assistance.

CALIBRATION

- ◆ Electro Technical Calibration
- ◆ Thermal & Humidity Calibration
- ◆ Pressure Calibration
- ◆ Dimensional Calibration
- ◆ Mass, Volume, Sound Calibration
- ◆ Flow Calibration
- ◆ Energy Calibration
- ◆ Primary Standard for Power/Energy Measurement
- ◆ Medical Instrument Calibration
- ◆ Fluid Flow Calibration
- ◆ Photovoltaic Calibration
- ◆ EMI/EMC Calibration
- ◆ Calibration of CTs & PTs of class 0.2 for various ranges
- ◆ On site Calibration

Testing

- ◆ Environment Testing
- ◆ Rain Test / Salt mist Testing
- ◆ Ingress Protection Testing / Dust Testing (IP XX) - IP 5X chamber
- ◆ Bump, Drop, Shock, Vibrating Testing
- ◆ Tensile Testing
- ◆ Dynamic Balancing
- ◆ Flammability Testing
- ◆ Temperature rise Testing
- ◆ Endurance Testing
- ◆ Capacity Testing
- ◆ Secureness Testing
- ◆ Energy Meter Testing
- ◆ Pump & Motor (dry & wet) Testing (up to 375 kw)
- ◆ Water Flow Meters Testing
- ◆ PCB Testing
- ◆ Software Testing ◆ Hardware Testing
- ◆ Screening & Testing of Electrical / Electronics components
- ◆ EMI / EMC Testing
- ◆ HV AC/DC Testing
- ◆ Medical Instruments / Equipments Testing

Software Testing & Training

- ▶ Functionality testing
- ▶ Usability testing
- ▶ Performance testing
- ▶ Stress/Load testing
- ▶ Recovery testing
- ▶ Regression testing
- ▶ Storage testing
- ▶ Configuration testing
- ▶ Install ability testing
- ▶ Facilities testing
- ▶ Procedure testing
- ▶ Volume testing
- ▶ Security testing
- ▶ Documentation testing
- ▶ Service ability testing
- ▶ Software Validation
- ▶ **Computer Hardware testing**
- ▶ **Software design & development**

Training

Public courses are offered through our network of laboratories/ centers:

- ▶ Metrology
- ▶ Industrial Automation
- ▶ Electronics Manufacturing Technology
- ▶ Repair and Maintenance
- ▶ Hydraulics & Flow Measurement

EQDC conducts training courses in the following major areas:

- ▶ Quality Management
- ▶ Environmental Management
- ▶ Software Engineering and Management
- ▶ Information Security Management System (ISMS)
- ▶ Laboratory Accreditation (NABL)
- ▶ DOEACC counselling & CCC online examination
- ▶ Testing and Calibration

Consultancy

- ▶ ISO 9001 QMS Certification
- ▶ ISO 27001 QMS Certification
- ▶ ISO 14001 EMS Certification & 18000 CE Marking
- ▶ Lab Accreditation as per ISO/IES 17025
- ▶ Conformity/Performance Assessment
- ▶ Certification for IEC Standards
- ▶ Accreditation of School & IT's

EMI / EMC Testing

The upcoming EMI / EMC Testing facility at EQDC's new complex in Gandhinagar would be meeting SVSWR specifications.

The proposed large Anechoic chamber with adequate shielding effectiveness, field uniformity and Normalised Site Attenuation is expected to get commissioned for higher range of frequencies.

Third Party Inspection Verification & Validations

Third Party Inspection of infrastructure projects, Verification & Validation of technical specifications, by EQDC's Quality monitoring cell.

Quality Facilitation Centre

This centre interconnects different industrial clusters of the state, with each other by audio-visual electronics, that would enable entrepreneurs/professionals/ industrialists to enhance quality of their products and industrial processes.

Safety Laboratory

Electrical Appliances are being tested as per safety standards.

On site Testing & Calibration Service (Mobile Testing & Calibration Laboratory)

The door step Calibration & Testing service are provided with Mobile Laboratory mounted on a mini truck, equipped with Testing & Calibration facilities.



Glimpse of our Geographical Reach (National)

EQDC is providing its expertise services to more than 22 states of the country ie. :

Goa, Assam, Delhi, Punjab, Haryana, Karnataka, Rajasthan, Daman (UT), Uttarakhand, Maharashtra, West Bengal, Himachal Pradesh, Uttar Pradesh, Chhattisgarh, Madhya Pradesh, Andhra Pradesh, Orissa, Tamilnadu, Kerala, Bihar, Uttarakhand & Gujarat



Glimpse of our Geographical Reach (International)

EQDC is providing its expertise services to more than 5 country ie. :

China, Bangladesh, Srilanka, Iran, Nigeria



MAJOR BENEFICIARIES OF EQDC SERVICES:

Calibration, Testing, Quality Advisory (Consultancy & Training), Energy Auditing, TPI, R&D

- ◆ MSME's ◆ Government Bodies ◆ Semi Government Bodies ◆ Research & Development Institutes
- ◆ Institutional Organizations ◆ Public and Private Sector & Utilities etc

LIST OF MAJOR USERS OF EQDC SERVICES

Government Bodies

- ◆ Space Application Centre , Ahmedabad
- ◆ Airport Authority of India,
- ◆ ONGC/ Indian Petro Chemicals Ltd/ Indian Oil Corporation
- ◆ Gas Authority of India- Ahmedabad, Vadodara
- ◆ Western Railways
- ◆ Indian Air Force, Vadsar/ Remote Sensing & Commn.
- ◆ Food and Drugs Laboratory/ Animal Husbandry
- ◆ RTO, DET (including ITI's etc DTE,GIL,DST, GAD-GoG
- ◆ Sardar Patel Institute of Public Administration
- ◆ Health & Family Welfare, / Govt. Hospitals, Medical Colleges etc
- ◆ Collectorates/ District Industries Centers / Education Department
- ◆ Treasury, Police Department & many more such distinct organizations

Institutional Organizations :

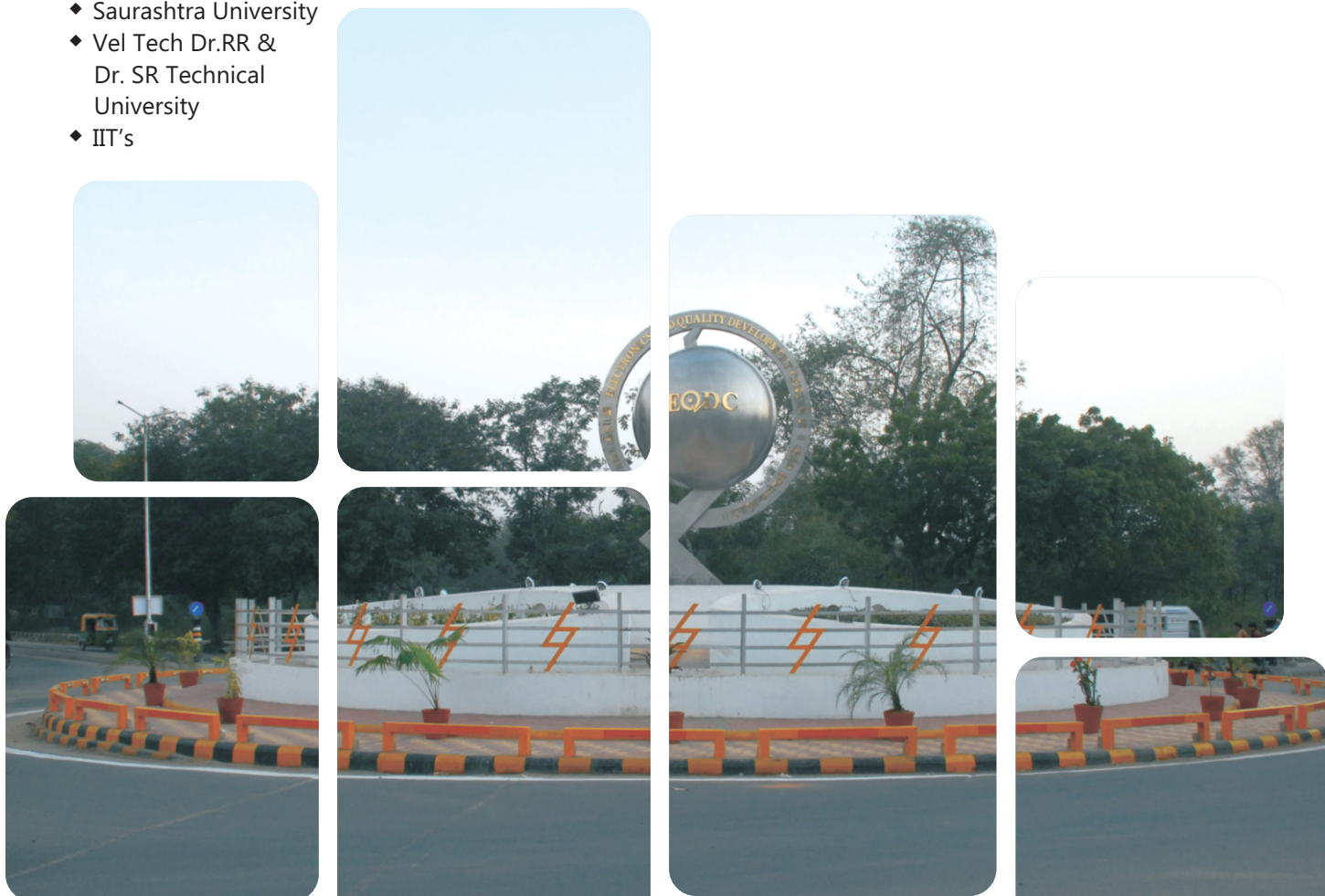
- ◆ L.D. Engineering, Ahmedabad
- ◆ ITI Kubenagar, Ahmedabad, ITI Gandhinagar
- ◆ Nirma Institute of Technology
- ◆ Saurashtra University
- ◆ Vel Tech Dr.RR & Dr. SR Technical University
- ◆ IIT's

Semi Government Bodies

- ◆ Ahmedabad Electricity Company
- ◆ Gujarat Electricity Board
- ◆ Sardar Sarovar Narmada Nigam
- ◆ GWRDC ,/ GWSSB, CED, IndextB
- ◆ Gujarat Maritime Board
- ◆ Gujarat Pollution Control Board
- ◆ State Bank of India, Union Bank of India, Rajkot Gramin Bank etc

Public and Private Sector :

- ◆ UGVCL, MGVL, Torrent Power AEC Ltd
- ◆ Tata Chemicals , Mithapur
- ◆ Reliance Industries Limited, Jamnagar
- ◆ Torrent Pharmaceuticals/ Intas Pharmaceutical
- ◆ Mc Loids Pharmaceuticals/ Cadila Pharmaceuticals
- ◆ Tata Honeywell/ Tata Tele Services
- ◆ Weathertronics / ERDA ATIRA / CERC / NSIC
- ◆ Patni Computer Systems/ NASL etc.
- ◆ Other SME / SSI Units



Scope of Expansion

- **Antenna Measurement Facility**
- **Mobile/Embedded Testing**
- **LED Product Testing Lab**
- **High Precision Electronic Calibration Centre**
- **Security (IT) - ISO 17799/EMS Certification**



ELECTRONICS AND QUALITY DEVELOPMENT CENTRE

(Established by Govt. of Gujarat)

An R & D Institute recognised by Dept. of Scientific & Industrial Research
(Under STQC Programme, DEIT, Ministry of Comm. & IT, Govt. Of India)

Contact :

N. S. Shrimali

Director EQDC &

Joint Technical Advisor, Gujarat State

GANDHINAGAR:

B-177/178 & B-23/2, EQDC Circle, GIDC Electronics Estate,
Sector-25, Gandhinagar-382024.

Phone : +91 9909039131/ 32/ 33 /34

Email : customer@eqdc.in,
qm@eqdc.in, md@eqdc.in

VADODARA:

C1-641/648, GIDC, Industrial Estate, Makarpura,
Vadodara-390 010.

Phone : +91 6359905520/ 21

Email : eqdcv@eqdc.in

Web: www.eqdc.in



NABL Accredited Lab

(NABL Certificate: CC-2491, TC-6695)