

E.P.I.L. ✓

CONTENTS

Introduction
Company Structure
Lab Photos
Certification Service
Power System Simulator
ATEX Certification
CE Marking
EPIL COR Marking
EPIL Certificates
ISO IEC 17065 Certificate
ISO IEC 17025 Certificates

EPIL Catalog

ISO IEC 17025 Accredited Lab
ISO IEC 17065 Certification Body



Introduction

EPIL is a leading testing, inspection and certification company with over 20 unique laboratory and testing facilities. With an expertise built on almost 20 years of experience, our team of over 70 engineers and technical experts is recognized in Iran and Middle East. Through our modern testing facilities located in Tehran, we are among the leading organizations providing measurements and inspection, testing & certification and professional training services to the global power industry.

Technical innovation is at the heart of much of what we do. These include providing innovative, yet practical, answers to meet the electricity-related challenges of modern equipment and processes. It is remarkable that because of the very close collaboration between EPIL and universities, the research and training services of this company are unique in Iran.

EPIL has high technology equipment and well trained and knowledgeable staff for performing different type of tests including; Ex, IP, safety, Low Voltage, High Voltage, Temperature Rise, EMC, Environmental tests.

EPIL proves its competence as an accredited product certification body according to ISO IEC 17065 (traceable to IAF) and accredited laboratory to ISO/IEC 17025 (traceable to ILAC).

It is worth mentioning that network laboratory management is another service that EPIL offers to their customers.

Company Structure

EPIL operated through two divisions:

1. Testing, Inspecting and Certification

EPIL has high technology equipment and well trained and knowledgeable staff for performing different type of tests including; Ex, IP, safety, Low Voltage, High Voltage, Temperature Rise, EMC, Environmental tests.

EPIL is the market leader in the testing and certification of electrical equipment in Iran. Tests are performed in accordance with international standards of IEC, ANSI, EN, DIN, ETSI, ASTM and local standards and clients' explicit requests. It is important to underline that product certificates and test reports from EPIL are recognised by utilities and electromechanical manufacturers and serve to verify:

- Products' conformity to standards
- Functionality of new product design
- Compliance with safety requirements and EU Guidelines as a pre-requisite to obtain the CE mark
- Compliance with quality requirements

A positive outcome of the tests performed at EPIL premises is that they assure access to the Iran market.

In the meantime, EPIL, with the cooperation of credible notified bodies such as IMQ of Italy, is providing the following international services:

- ATEX Certification (Testing + Auditing)
- CE Marking (EMC Directive, ...)





EPIL delivers a global service covering the assessment, control and surveillance of suppliers of electrical components. Our laboratories are accredited according to the following certificates:

- ISO IEC 17025 certificate with a wide scope in Electrical equipment in Oil, Gas, Power and Telecommunication Industries (Our scope comprises Switchgears, Luminaires, Disconnectors, Transformers, Meters, Cables, Electric Machines, Busbars, and Households ...)
- Calibration center certificate
- Inspection body certificate
- EMC and Safety accredited lab according to EU Directives
- ATEX accredited lab according to EU Directives

Furthermore, EPIL is certified as a product certification body by NABCB (an IAF Member accreditation body). Applicant companies can receive certificates with international traceability for single products, product groups and mass production (equipment and production line).

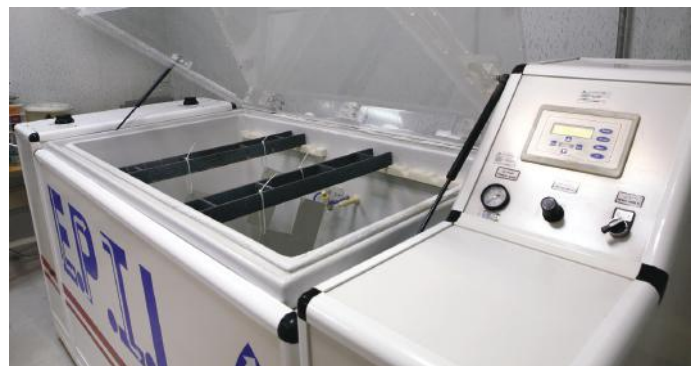
2. Professional Training

Relying on 22 years of knowledge and experience in the field of standardization, EPIL organizes training courses in the following fields: and development of products manner.

3. Laboratory Network Management

Based on the extensive international relations it has established with European and Asian laboratories over two decades, as well as the branches it has established in Austria and Turkey, EPIL can subtract the tests which are not applicable in Iran.

EPIL activities in the field of international laboratory management include: receiving technical proposals and quotations from international laboratories, depositing test fees, managing of sending test equipment to international laboratories, supervision of tests, and finally, presenting a comprehensive test report or issuing a compliance certificate.

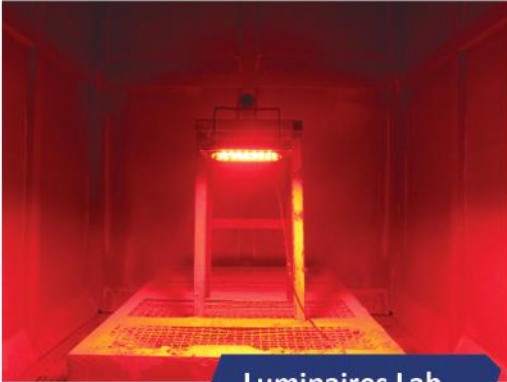




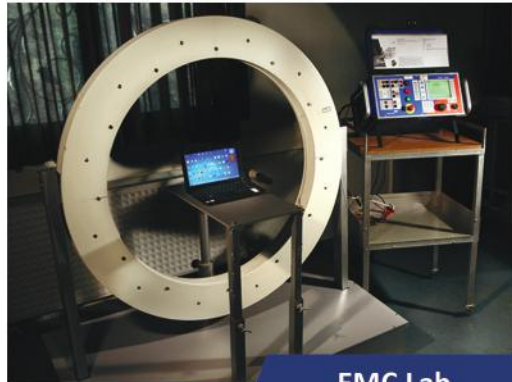
Switchgears, Compact Substations and Busbars Lab



HV Lab



Luminaires Lab



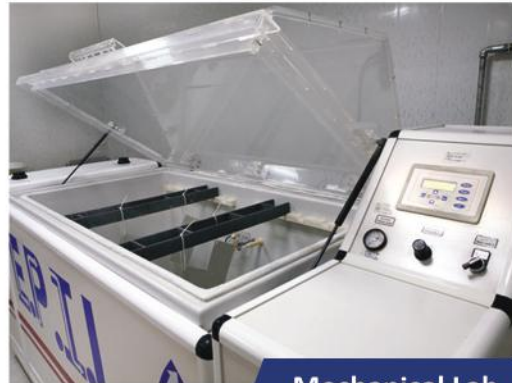
EMC Lab



Elect



Artificial Pollution Lab



Mechanical Lab



Temperature Rise Lab



Explosion Proof Lab



E.P.L.



LV Lab



On-site Lab



Solar Panels Lab



Mechanical Machines Lab



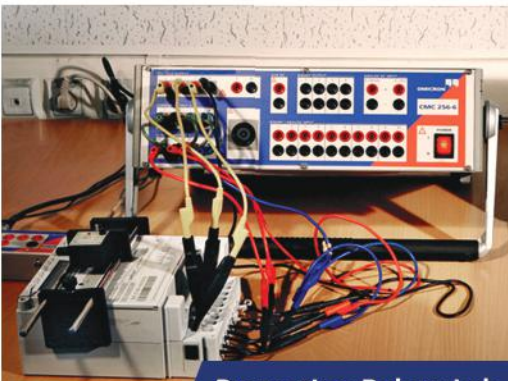
IP Lab



Cables, Fittings, Hardware Lab



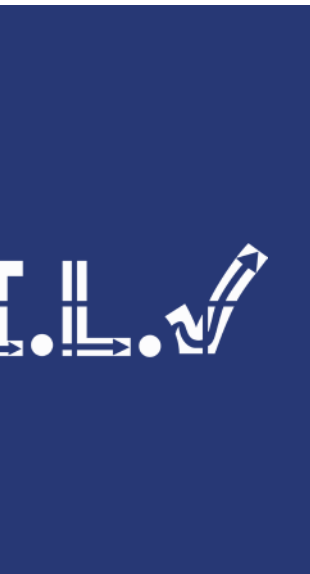
Safety Lab



Protection Relays Lab



Self-supporting cables Lab

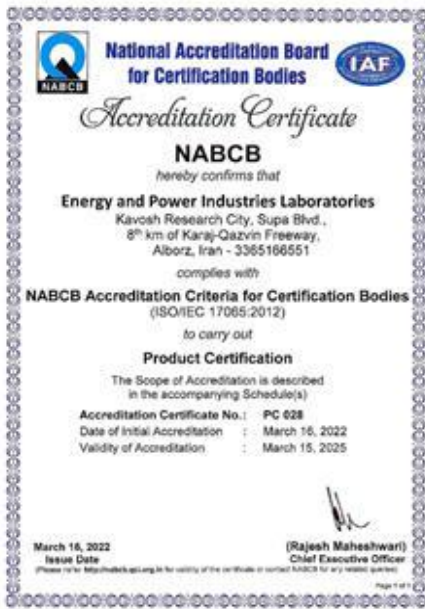


Generator Wound Bars and Coils Lab



Environmental Lab

Certification Body



EPIL proves its competence as an accredited product certification body according to ISO IEC 17065 (traceable to IAF).









Certification Services (according to ISO IEC 17065 standard):

- SIL Certification
- Hazloc Testing and Certification (IR-Ex, ...)
- Medical Equipment Testing and Certification
- EMC Testing and Certification
- Project Quality Management



EPIL Certification Services

EPIL can provide different type of certificates either independently as an accredited certifications body or with the cooperation of European partners. EPIL has been collaborated with verified and reputed Notified bodies for many years.

No	Type of Certificate			Certification Body
1	Explosion Proof	IR-Ex		EPIL
		ATEX		NBs (IMQ)
		IECEX		EPIL
2	Electrical Equipment	IR-CE		EPIL
		CE Marking		NBs (IMQ)
		IECEE (Under Process)		EPIL
3	SIL	SIL 1, SIL 2, SIL 3, SIL 4		EPIL
4	Renewable Energy	IECRE (Under Process)		EPIL

Power System Simulator

R&D department of EPIL has newly designed and manufactured a Power System Simulator. The designed system is capable of analyzing power system phenomena in the exact manner it happens in a real power network from production to consumption.

In fact, this system is a small scaled down model of real power network including generator, transformers, transmission lines... and simulates the characteristics of different parts in a real manner.

Furthermore, SCADA and automation system for Power System Simulator is designed and by customer demand, can be produced and sold. The SCADA software includes the experiments already given with the Power System Simulator, include:

- Generator characteristics and performance
- Transformers
- Transmission, distribution and utilization
- Power system protection

Application of this product in industrial, educational and research centers are as follows:

- Analyzing the power systems phenomena (steady state, error, protection ...)
- Verifying the development of power network control and protection systems
- Comparing the obtained results with the results of power system analyzing software
- Performing various experiments (creating different error conditions, verifying correct function of protection equipment, control ...)

Using this system a variety of training schemes programmed for energy management staff, operators of power plants, substations, maintenance personnel and university researchers can be realized.

System Configuration:

- Basic Model:
- Power plant module
 - Substation module
 - Transmission Line module
 - Distribution module
 - Power factor control module
 - Load module

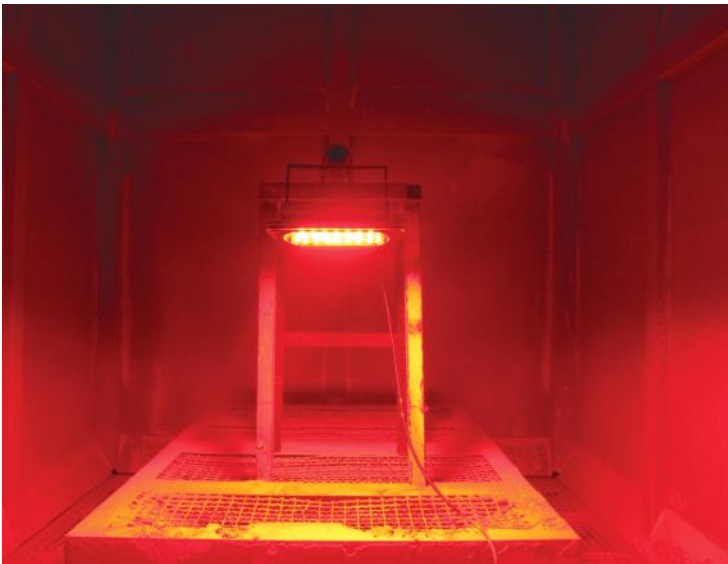
- Advanced Model:
- Protection system module
 - SCADA module





ISSUING CE MARK

What is the CE Mark?



CE is the conformity of product with the specified standards in European community; an approved certificate for assuring of products quality and safety. CE certificate can have following advantages:

- Products with this certificate can be sold in European countries and countries near to Persian Gulf and neighbors of Iran easily and without limitation.
- It makes costumers to be assured about the product.
- It produces competitive advantages for manufacturers.
- It makes easy, participating in the tenders.

Advantages of acquiring CE certificate from EPIL

Considering that manufacturers had to execute the process of acquiring CE certificate in Europe, it was so time and cost wasting. In order to make easier the process of acquiring the certificate, EPIL has been accredited by valid NB and therefore manufacturers can acquire the CE certificate easier from EPIL which is representative of NB and has been audited by valid European NB.

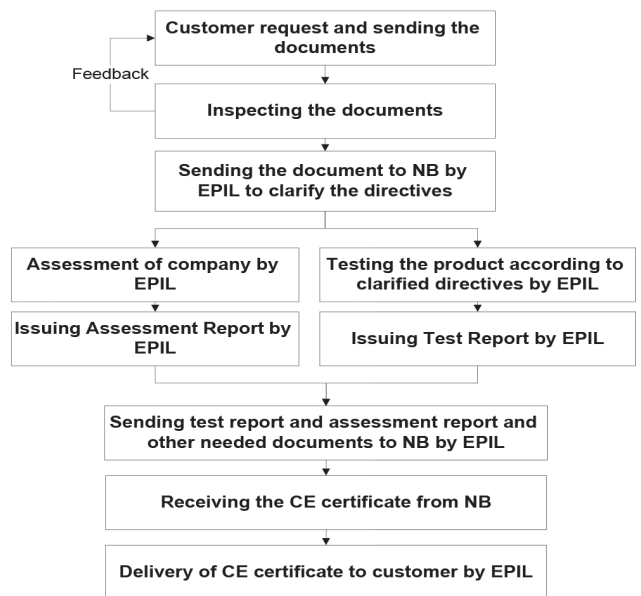
The process of acquiring CE certificate from European NB by EPIL

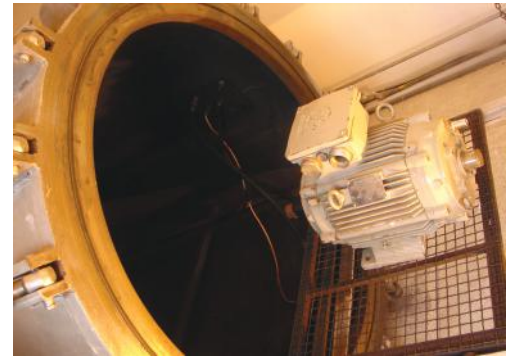
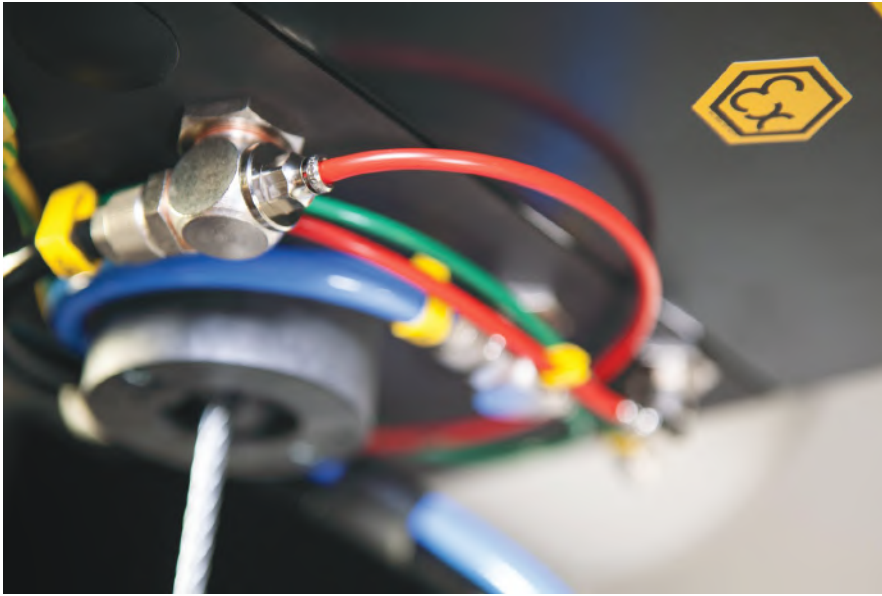
In the following Picture, the process of acquiring CE certificate from valid European NB by EPIL Company is depicted.

Notice:

There is an important point that manufacturers should notice and it is credibility of CE certificates. Recently some CE certificates have been issued which have no credibility and are not valid. In order to be sure about the credibility of CE certificates the validation of NB (which has issued the certificate) should be assured by checking in the NANDO website (which its address is <http://ec.europa.eu/enterprise/newapproach/nando>) and then certificate registry number should be sent to NB to be assured about the credibility of certificate.

Procedure of acquiring CE certificate form valid European NB by EPIL





ATEX Laboratory

Explosive atmospheres can be caused by flammable gases, mists or vapours or by combustible dusts. If there is enough of the substance, mixed with air, then all it needs is a source of ignition to cause an explosion.

Explosions can cause loss of life and serious injuries as well as significant damage.

Preventing releases of dangerous substances, which can create explosive atmospheres, and preventing sources of ignition are two widely used ways of reducing the risk.

The ATEX directive describes what equipment and work environment is allowed in an environment with an explosive atmosphere.

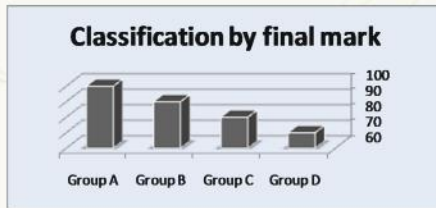
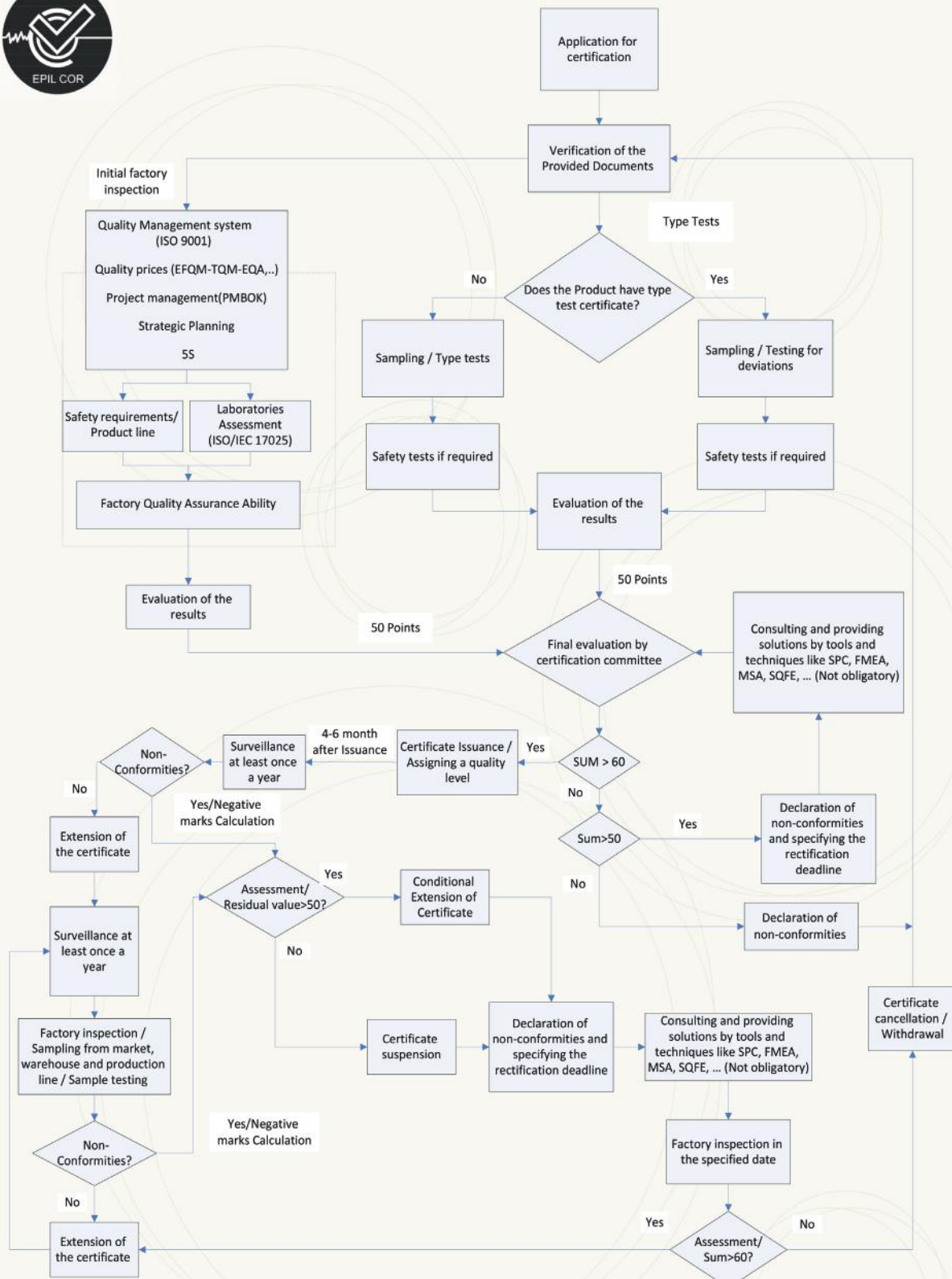
EPIL has established a powerful ATEX lab capable of testing and certification of the following codes:

- Ex d (Flameproof Enclosures)
- Ex e (Increased Safety)
- Ex nA (Non-Sparking)
- Ex p (Pressurized Enclosures),
- Ex o (Oil Immersion)
- Ex i (Intrinsically Safe in the near future)

Our Explosion Proof lab is accredited according to ISO IEC 17025 standard.

EPIL has a collaboration with European Notified Bodies for issuing EU Type Examination Certificate and Quality Assurance Notification.





Product Quality Label (EPIL COR)



COR is an abbreviation for Certificate of Registration. This new certification system is implemented by EPIL lab, pertaining quality control and providing assurance of compliance with specified standards and other normative documents.

EPIL establishes and declares the implementation rules for electrical products which include the following contents:

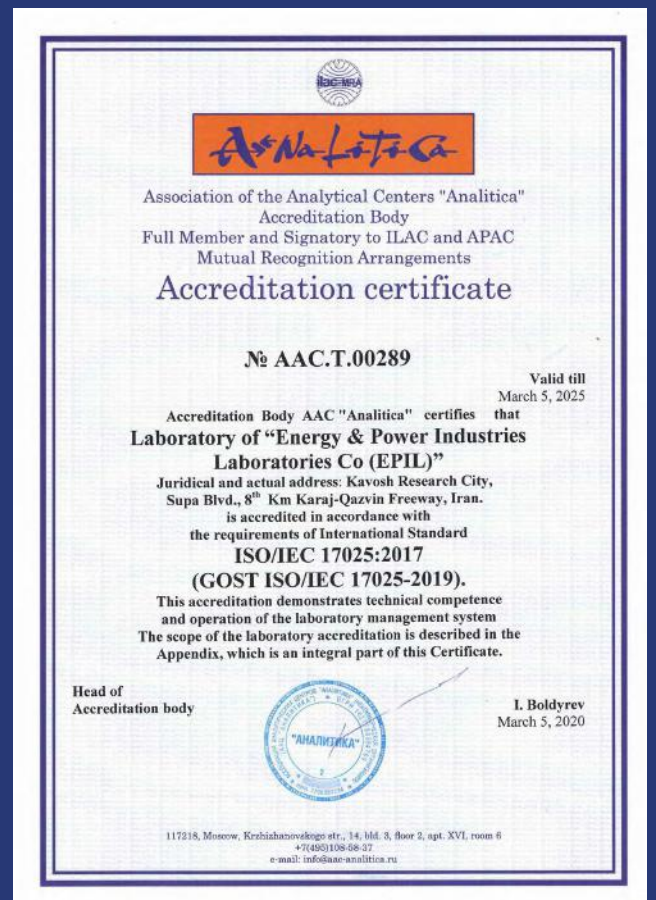
- Design appraisal
- Type testing
- Testing or inspection of samples taken from the factories
- Testing or inspection of samples taken from the market
- Assessment of manufacturer's quality assurance system
- Assigning a quality level (A, B, C or D)
- Follow-up (Surveillance) inspection on certified products
- Re-evaluation of the quality level

Here is the EPIL COR certification procedure:

Our ISO IEC 17025 Certificate covers the following equipment:
Switchgears, Compact Substation, Explosion Proof Equipment,
Current Transformers, Voltage Transformers, Electromotors,
Luminaires, Wires, Cables, Hardwares, Fittings, Circuit Breakers,
Disconnectors, Insulators, Electricity Meters, Households,
Telecommunication and Electro medical.



IAF traceable ISO IEC 17065 Certificate



ILAC traceable ISO IEC 17025 Certificate



National ISO IEC 17025 Certificate

IMQ Certificate (Ex)





Ref. No. IMQ-335/STL3

RECOGNITION

This is to confirm that the testing laboratory:

**"Energy & Power Industries Laboratories Co"
(E.P.I.L.)**

located in

**Kavosh Research City, Supa Blv,
8th km - Karaj-Qazvin Freeway
(IRAN)**

HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF IMQ TOWARDS
SUBCONTRACTORS OF TESTING SERVICES AND RECOGNIZED FOR THE
APPLICATION OF PROCEDURE

SUPERVISED TESTING LABORATORY (STL) STAGE 3

AS DESCRIBED IN IMQ RULES FOR RECOGNITION AND UTILIZATION OF TESTING FACILITIES IN THE
PERFORMING OF TESTS COVERED IN THE SCOPE REPORTED IN THE ANNEX OF THIS RECOGNITION

IMQ S.p.A. will accept the test results of the above testing laboratory
as basis to issue its own certifications

IMQ S.p.A

First issue: 2018-05-08
Expiry date: 2019-05-07

THE VALIDITY OF THIS RECOGNITION IS SUBJECT TO THE CONTINUOUS RESPECT OF
RELEVANT IMQ RULES AND IS RELEVANT TO THE STANDARDS LISTED IN THE ANNEX TO
THIS RECOGNITION

IMQ S.p.A. - con Socio Unico | Via Quintiliano 43 | Italia - 20138 Milano | www.imq.it

IMQ Certificate (EMC/Safety)



شماره: ۷۳۹/۸۱
تاریخ: ۱۳۹۷/۰۳/۰۲
صفحه: ۳ از ۳
مرتبه تصدیق: هفتمین

گواهینامه تایید صلاحیت آزمایشگاه همکار

به استناد روش اجرایی "تایید صلاحیت نظارت بر عملکرد آزمایشگاههای آزمون و کالیبراسیون" شرکت
آزمایشگاههای صنایع برق (EPIL) برای انجام آزمون های مشروحه زیر تایید می گردد.

عنوان محصول	عنوان آزمون	استاندارد * ضوابط مورد تایید سازمان
تجهیزات رایانه ای	ایمنی تجهیزات رایانه ای	ISIRI ۵۱۳۲۲ IEC ۶۰۹۵۰-۱ ISIRI ۴۸۸۲ IEC ۶۰۰۶۰
سیکاهای صوتی، تصویری و دستگاههای الکترونیکی مشابه	آزمایش ایمنی	ISIRI ۷۲۶۰-۲-۲ IEC ۶۱۰۰۲-۲
تجهیزات تایپر یا تایپر گتار از نظر پدیده الکترو مغناطیسی	سازگاری الکترو مغناطیسی قسمت ۳-۴ روش های آزمون و اندازه گیری. آزمون محدودیت در برابر تخلیه الکترواستاتیکی	ISIRI ۷۲۶۰-۳-۴ IEC ۶۱۰۰۳-۴
تجهیزات تایپر یا تایپر گتار از نظر پدیده الکترو مغناطیسی	سازگاری الکترو مغناطیسی قسمت ۳-۳ محدود تغییرات ولتاژ نوسانات ولتاژ و فلیکتر در سیستمهای تغذیه عمومی ولتاژ پایین برای تجهیزات با جریان نامی کمتر از ۱۶ آمپر که در معرض انحرافات شرطی قرار نمی گیرند (تجهیزات با جریان ورودی کمتر یا مساوی ۱۶ آمپر برای هر فاز)	IEC ۶۱۰۰۳-۳

علی سعادت
مدیر کل



ISIRI AI/739 Certificate (Electrical and Electronic Equipment)



ISIRI AI/787 Certificate (LV Switchgear)

شماره: ۷۸۷/۸۱
تاریخ: ۱۳۹۷/۰۳/۰۲
صفحه: ۱ از ۱
مرتبه تصدیق: هشتمین

گواهینامه تایید صلاحیت آزمایشگاه همکار

به استناد روش اجرایی "تایید صلاحیت و نظارت بر عملکرد آزمایشگاههای آزمون و کالیبراسیون" شرکت
آزمایشگاههای صنایع برق (EPIL) برای انجام آزمون های مشروحه زیر تایید می گردد.

عنوان محصول	عنوان آزمون	استاندارد * ضوابط مورد تایید سازمان
وسایل برق خانگی	وسایل برق خانگی و مشابه ایمنی	ISIRI ۱۵۶۲۰-۱
اتوها	قسمت اول: الزامات عمومی وسایل برق خانگی و مشابه ایمنی	ISIRI ۱۵۶۲۰-۲-۳
ریش تراش های برقی و ماشینهای موزن اصلاح برقی	قسمت ۲-۳: الزامات ویژه اتوها وسایل برق خانگی و مشابه ایمنی قسمت ۲-۸: الزامات ویژه ریش تراش های برقی و ماشینهای موزن اصلاح برقی	ISIRI ۱۵۶۲۰-۱ و ۱۵۶۲۰-۲-۸
کباب پزها ، برشته کن ها	وسایل برق خانگی و مشابه ایمنی قسمت ۲-۹: الزامات ویژه کباب پزها، برشته کن ها	ISIRI ۱۵۶۲۰-۱ و ۱۵۶۲۰-۲-۹
صفحات گرم نگهدار	وسایل برق خانگی و مشابه ایمنی قسمت ۲-۱۲: الزامات ویژه صفحات گرم نگهدار	ISIRI ۱۵۶۲۰-۱ و ۱۵۶۲۰-۲-۱۲

تذکر:

- مدت اعتبار این تاییده از تاریخ تصدیق یک سال می باشد.
- داشتن این تاییده رافع مسؤلیت های حقوقی و جزایی دارنده آن نمی باشد.
- رعایت تمدت نامه همکاری با سازمان ملی استاندارد ایران الزامی است.
- در صورتی که آزمون در زمینه تعیین ماهیت باشد و استاندارد مشخصی برای آن وجود نداشته باشد از ضوابط قانونی مربوطه از جمله حوزه های تعریف شده استفاده یا فصول کتاب مقررات صادرات و واردات استفاده می شود.

آدرس: کرج کیلومتر ۸، اتوبان کرج قزوین، انباری بلوار سوریا، شهرک تحقیقاتی کیش ۳۸۰، ۰۲۶۹۹۶۱۰۱

علی سعادت
مدیر کل

شماره: ۲۴۷۵/۸۱
تاریخ صدور: ۱۳۹۷/۰۳/۰۲
صفحه: ۱ از ۱ تصدیق: نهمین

گواهینامه تایید صلاحیت آزمایشگاه همکار

به استناد روش اجرایی "تایید صلاحیت و نظارت بر عملکرد آزمایشگاههای آزمون و کالیبراسیون" آزمایشگاه ایمنی لوازم
خانگی شرکت صنایع انرژی ایران برای انجام آزمون های مشروحه زیر تایید می گردد.

عنوان محصول	عنوان آزمون	استاندارد * ضوابط مورد تایید سازمان
وسایل برق خانگی	وسایل برق خانگی و مشابه ایمنی	ISIRI ۱۵۶۲۰-۱
اتوها	قسمت اول: الزامات عمومی وسایل برق خانگی و مشابه ایمنی	ISIRI ۱۵۶۲۰-۲-۳
ریش تراش های برقی و ماشینهای موزن اصلاح برقی	قسمت ۲-۳: الزامات ویژه اتوها وسایل برق خانگی و مشابه ایمنی قسمت ۲-۸: الزامات ویژه ریش تراش های برقی و ماشینهای موزن اصلاح برقی	ISIRI ۱۵۶۲۰-۱ و ۱۵۶۲۰-۲-۸
کباب پزها ، برشته کن ها	وسایل برق خانگی و مشابه ایمنی قسمت ۲-۹: الزامات ویژه کباب پزها، برشته کن ها	ISIRI ۱۵۶۲۰-۱ و ۱۵۶۲۰-۲-۹
صفحات گرم نگهدار	وسایل برق خانگی و مشابه ایمنی قسمت ۲-۱۲: الزامات ویژه صفحات گرم نگهدار	ISIRI ۱۵۶۲۰-۱ و ۱۵۶۲۰-۲-۱۲

تذکر:

- مدت اعتبار این تاییده از تاریخ تصدیق یک سال می باشد.
- داشتن این تاییده رافع مسؤلیت های حقوقی و جزایی دارنده آن نمی باشد.
- رعایت تمدت نامه همکاری با سازمان ملی استاندارد ایران الزامی است.
- در صورتی که آزمون در زمینه تعیین ماهیت باشد و استاندارد مشخصی برای آن وجود نداشته باشد از ضوابط قانونی مربوطه از جمله حوزه های تعریف شده استفاده یا فصول کتاب مقررات صادرات و واردات استفاده می شود.

آدرس: کرج کیلومتر ۸، اتوبان کرج قزوین، انباری بلوار سوریا، شهرک تحقیقاتی کیش ۳۸۰، ۰۲۶۹۹۶۱۰۱

فانانہ شکر الہی
مدیر کل



Issuing Iran Local Certificate for the Importing Products

Many domestic and imported products are subject to product testing and cannot be sold in Iran without certification of compliance with prescribed standards.

Knowledge of, and adherence to, these standards and their testing procedures can be the key to making or breaking a sale.

Compliance with regulations and standards is also governed by a certification system in which inspection results determine whether or not approval is granted.

Approval is generally required before a product can be sold in the market or even displayed at a trade show.

To affix a local certificate, requires prior product type approval and possibly factory inspections for quality control assessment.

EPIL company as an ISO IEC 17025 accredited lab and inspection body can issue local certificate for many types of electrical products and equipment comprising the following.





Head office: Unit 12, No 2, Boujari Sefat Dead-End,
Comer of Fariman St., Bozorgmehr St., Vali-Asr
Ave, Tehran.

Central laboratory: Kavosh Research City, Supa Blvd.,
8 km of Karaj-Qazvin freeway.

Postal Code: 1416854523

Tel.: +98 21 - 61971

Fax: +98 21 – 66174283

Website: www.eepil.com

Email: info@eepil.com