



















Korea Apparel Testing & Research Institute

KATRi's FOCUS: Solving the Clients' Problems and Satisfying the Clients' Needs

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We, at KATRi, are dedicated to serving our clients' needs by providing efficient and reliable services with our leading edge technology.

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Korea Apparel Testing & Research Institute



KATRi is a Reliable Partner at Industry

Founded in April 1965 as the Testing & Inspection Institute of Korea Knitting Industry Federation, the institute changed its name to the Korea Apparel Testing & Research Institute (KATRi) in May 1994.

Designated as the authorized laboratory under several international & national regulations, KATRi continues to excel as the leading provider of testing, inspection, certification and quality assurance services with highly qualified experts, state-of-the-art equipment, and invaluable experiences. We offer an extensive array of technical know-how, competitive pricing, and ongoing consultation associated with current regulations affecting manufacturers, marketers, and retailers.

KATRi's core service activities cover not only textile products (such as apparels, underwears, dresses, fabrics, etc.), but also industrial consumer products (such as automotive interior/exterior products, household goods, construction materials, electronic/electrical equipment, washing/cleaning products, senior/children's products, toys, etc.).

We understand that product quality is essential to a company's competitive edge. KATRi ensures regulatory compliance of your products and strives to fully satisfy the needs of customers who are preparing for the future of high value-added products.

KATRi's goal is to be your reliable and faithful partner!

Product Quality is the Key to Business Success and is a Powerful Tool for Reliability!



History

1965. 4	Established as the Testing & Inspection Institute of Korea Knitting Industry Federation
1979. 12	Designated as the Quality Inspection Inst. under the Act on the Industrial Product Quality Control
1980. 1	Became a member of AATCC (USA)
1987. 7	Appointed as the specialized testing and inspection laboratory by the Consumer Protection Board
1989. 7	Established the Korea-Japan Quality Center under the MOU between
	KATRi & Japan Textile Products Quality & Technology Center (QTEC)
1994. 5	Changed its name to the Korea Apparel Testing & Research Institute(KATRi)
1998. 10	Appointed as the authorized Quality Inspection Inst. by the Ministry of Construction & Transportation
2004. I	Established the China Inspection Center (Located at Yontai)
2004. 3	Signed MOU with STR (USA)
2007. 3	Accredited as the official Certification Inst. by KOLAS(Korea Laboratory Accreditation Scheme)
2007. II	Established the Gae-Sung Inspection Center in North Korea
2008. 4	Designated as the Energy-saving Products Inspection Inst. by the Ministry of Industry & Energy
2008. 7	Accredited as the official Products Certification Inst. by KAS (Korea Accreditation Scheme)
2009. I	Accredited as a third-party laboratory under the US Consumer Product Safety Improvement Act (CPSIA
2012. 4	Signed MOU with MTS (USA)
2013. 6	Built a new annex in Anyang

Korea Apparel Testing & Research Institute

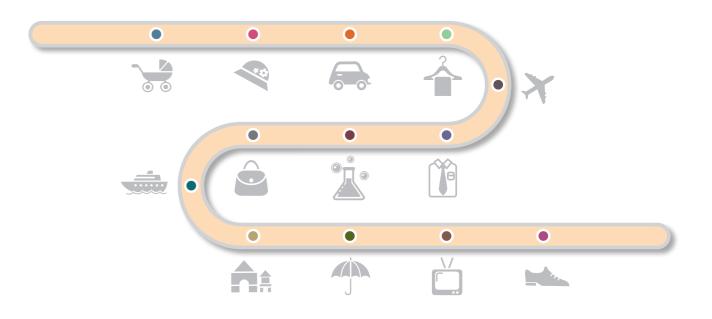
KATRi's Philosophy and Strategy

Philosophy



- * **D**edicated to the development of Industry and enhancement of Quality
- * **A**s a genuine partner and faithful friend to customers
- * With passion, professionalism, and client-oriented service
- * No one resists KATRi's Reliability and Specialty







Global Leading Institute

To pursue the continuous change and the active challenge for innovation and efficiency

To expand extensive collaboration through MOU and mutual partnership

Value-added Creation To elevate the value of technology, Information, and business

Specialty and Reliability

To maximize the excellent capability in testing & evaluation

Clientoriented Service

To provide impressive services for complying with customer's needs

Major Items of Products

Textile Products & Related Products

- Yarn, fabric, underwear, apparel for children, trousers, skirt, jacket, coat, jumper, sweater, sportswear, socks, down/feather clothes, etc.
- Carpet, curtain, tent, rope, life jacket, etc.
- Textile processing products (dyestuff, softening agent, bleaching agent. etc.)
- Subsidiary items (button, zipper, braid, band, print, etc.)

12

Non-Textile Products (Industrial/Consumer goods)

Items Cluster 12

01

Automotive Interior/Exterior Products

Car seat, mat, pad, floor mat, seat cover, door trim, sound proofing(sound absorption) material, airbag, safety belt, switches, meter panels, other plastic/rubber molding products(interior articles), etc.

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Furniture (raw/subsidiary materials)

Timber(ordinary plywood, prefinished · printed · embossed · paper overlaid plywood, MDF, PB, etc.) and leathers, textiles, latex,

02

Electronic/Electrical Products (for detecting harmful substances)

Household electric appliance(washing machine, refrigerator, audio, etc.), computer, semiconductor, lighting fixture, automotive electronic appliance, electric tool, sports/leisure goods, etc.

04

Construction Materials (Interior/Exterior)

Protective clothing (protection against chemicals, protection against heat and flame, protection against infective agent), protective gloves, surgical drapes and gowns, etc.

05

Industrial Textiles

Asbestos, non-woven fabric, filters(for heating/cooling, cleaning), glass fiber, carbon fiber, etc.

06

Geo-synthetics

PBD(plastic board drain), drain material(PET/PP mat), geo-grid, drain board, geo-tube, multi-porous tube, geo-net, coir net, non-woven textile, etc.

07

Protective clothing textiles

Protective clothing (protection against chemicals, protection against heat and flame, protection against infective agent), protective gloves, surgical drapes and gowns, etc.

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Household goods(plastics/rubbers/leathers)

Shopping bag, film, hose, kitchen utensils(tableware, cup, etc.) garbage bag, biodegradable plastic, disposable plastic, Pad, packing, etc. bag, wallet, handbag, belt, footwear(sports shoes, mountain-climbing boots, golf shoes, etc.), chemical household product(air freshener, adhesive, deodorant, etc.)

09

Washing & cleaning products

Washing machine(for energy-saving efficiency & washing performance), synthetic detergent, kitchen detergent, softening agent, cleaning agent, bleaching agent, sterilizing agent, fluorescent brightening agent, electrostatic agent, etc.

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Senior products

Shoes, bathing chair, movable toilet bowl, portable toilet stood, safety grip, movable bathtub, walker, walker-assistant, posture changing tool, etc.

11

Children's products

Toys(operating/non-operating toys), baby walker, accessory, baby carriage, (swimming) plaything, protective products, play facilities, etc. 12

)thers

Wipes(wet tissue), disposable diaper, paper bag, kraft paper, corrugated cardboard, fake eyelashes, accessories(necklace, bracelet, imitation jewelry, etc.), ornaments, eyeglasses frame, swimming glasses, goggles, sunglass, umbrella, parasol, cosmetic products, etc.

Testing, Inspection & Certication

KATRi's Testing Business



Testing by Company's Request

Test requests by enterprises for products to be placed in the domestic market to guarantee the quality of the product by an accredited laboratory and improve brand image.

Applied products: Textile products(apparel, garments, fabric, etc.) and their related products(button, zipper, band, etc) / industrial/consumer products (automotive interior products, electrical appliances, household goods, senior products, children's products including toys, etc.)



→ Major Equipment for Analysis/Test/Evaluation

- LC/MS(n), GC/MS(n), XRF, XRD, FT-IR, FE-SEM, FL/GF-AA, ICP/AES, UV/VIS/NIR, TGA, Combustion IC, HSS/TD-GC/MS, etc.
- Flammability tester, Fade-o-meter Xenon arc, Ozon tester, Abrasion tester, Smoke density chamber, UL94-AVH, Strength tester, Water penetration tester, Latex stability tester, Sweating guarded hot plate skin model, Thermal manikin, etc.

Testing Inspection Certification





Testing by Overseas Buyer's Request

Testing and certifying your products, and complying with regulations and standards are essential parts of exporting goods to USA, EU, Japan, etc. With KATRi's international reciprocal certification and authentication services, you can ensure that your products comply with the regulations and standards of the country you are exporting your goods to.

MTS (USA) and QTEC (Japan) are major cooperating partners with KATRi in the area of testing and certification. KATRi issues co-branded test reports (KATRi-MTS or KATRi-QTEC) by the client's request.

Applied products: similar to the above 'Test by Company's Request



What is MTS?

MTS(Modern Testing Services) is a comprehensive testing, inspection, auditing institute and has a world-wide leading role in the field of testing.

It has been established in the USA, HK, China, Taiwan, India, Bangladesh, Indonesia, Germany and UK.



What is QTEC?

QTEC(Japan Textile Quality & Technology Center) is a testing and inspection institute accredited by Japan Authority and ISO. It has been one of the most famous testing laboratories in Japan.



GB Testing

GB 1840 Standard under the China Law (the China Standard Act and Products Quality Act) imposes requirements on manufacturers and distributors of textile products for reducing the harmful chemicals from textile products.

Under a MOU with Chinese Official Laboratory Institute, KATRi can issue test reports, assuring compliance with the requirements of the hazardous substances in products.

Regulated products: textile products for children(diaper, underwear, apparel, hat, socks, etc.) / directly/ indirectly skin-contact textile products(trousers, bra, shirt, skirt, coat, jacket, sweater, etc.)

Test items: formaldehyde, color fastness, arylamine, pH, smell, etc.







Int'l/Nat'l Regulations and Standards



RoHS

RoHS (Restriction of Hazardous Substances Directive) restricts the use of six hazardous materials in the manufacture of various types of electronic/electrical equipment for reducing damage to the human body and environment.

It is closely linked with the Waste Electronic/Electrical Equipment Directive(WEEE) referred to recycling and recovery targets.

Restricted substances; mainly 6

① Pb ② Hq ③ Cd ④ Cr⁶⁺ ⑤ PBB ⑥ PBDE

Applied equipment (appliances)

Large & small household appliances/IT equipment/telecommunication equipment/consumer equipment/ lighting equipment/electrical tools/toys, leisure and sports equipment/medical devices, etc.



Companies selling a broad range of electrical goods in the EU must conform to WEEE(Waste Electrical and Electronic Equipment) and those companies must also conform to RoHS.

Electronic/Electrical waste(e-waste) describes loosely discarded samples, obsolete and broken electronic/ electrical devices causing a serious health & pollution problem by containing hazardous materials such as lead, cadmium, brominated flame retardants.



REACH

REACH(Registration, Evaluation, and Authorization and Restriction of chemical substances) is for improving the protection of human health & environment through the better and earlier identification of the intrinsic properties of chemicals.

It gives greater responsibility to the industry to manage the risks of chemicals and to provide safety information of the substances. Manufacturers and importers are required to gather information on the properties of their chemicals, including registration and evaluation by authorized laboratories.



0eko-Tex Standards 100

Oeko-Tex Standard 100 is the international regulation relating to harmful substances in textiles for raising awareness of the use of chemicals and for providing protection of the consumers against substances used.



PoHS (Prohibition of the use of certain Hazardous Substances) affects the kind of products (such as electronic/ electrical appliances, clothing, bags, toys, etc.) that can be traded in Norway for the purpose of reducing harmful substances in products.



POPs

POPs(Persistent Organic Polluants) are chemical substances that persist in the environment, bioaccumulate through the food web, and pose a risk of causing adverse effects to human health and the environment. Substances originate from man-made sources associated with product, use, and disposal / combustion / byproducts of certain organic chemicals.



HR 4040

The Consumer Product Safety Improvement Act is an US law (namely HR 4040), imposing new requirements on manufacturers of apparel, shoes, personal care products, accessories and jewelry, toys, beddings electronics, school supplies, etc.

It is targeted mostly to the children's products designed or intended for ages 12 and under. Third-party testing is required for these children's products. KATRi has been accepted as an accredited third-party laboratory for tests such as Lead in Paint, Phthalates, Total Lead, Flammability, Small Parts, Sharp Edges, Sharp Points, etc.

This regulation is more stringent than any other legislation for consumers due to imposing obligations and increasing penalties on the manufacturer, importer, and distributor in the US market.

National Law

- The Act on Safety/Quality Management of Industrial Products
- The Hazardous Substances Management Act
- The Korea Standard(KS) Act
- Indoor's Air Quality Management Act
- The Act on the Sales Promotion to Environment-friendly products

Standards

- Standards of ISO, EN, AATCC, ASTM, JIS, DIN, BS, etc.
- Reciprocal certification standard with MTS(US) and Q-TEC(Japan)
- China GB testing standard
- Buyer's requested/proposed standard
- Testing standard by KOLAS(Korea Laboratory Accreditation Scheme)
- KS(Korea Standard)
- Standard under the Act on the Safety/Quality Management of Industrial Products.
- Standard proposed by domestic big manufacturer or distributor

Chemical Testing(Harzardous Substances)



It is essential to assure the identification and evaluation of certain hazardous substances contained in the industrial/consumer products by meeting requirements under the international/national regulations for eliminating the exposure to harmful substances.

KATRi can ensure that clients will not come into contact with any substances which pose a risk to their health.

Heavy metals : Pb, Cd, Hg, Cr⁶⁺, Sb, As, Co, Cu, Ni, etc.

VoCs(Volatile compounds): formaldehyde, acetaldehyde, benzene, toluene, xylene, styrene, etc.

Flame retardants: PBBs, PBDEs, TBBA, BPS, etc.

Azo / Allergenic / Carcinogenic dyestuff

Residual pesticide: aldrin, dieldrin, heptachlor, Mirex, toxapen, hexachlorobenzoyl, etc.

Organic tin compounds: TBT, DBT, MBT, etc.

Chrorinated compounds: PCBs

Perfloro compounds: PFOA, PFOS, etc.

Others

Dimethyl fumarate / pH / chrorinated phenols, alkyl phenols / surface active agent / chlorinated carrier / aromatics(muskxylene, etc.) / POPs(Persistent Organic Pollutants), etc.



<Regulations & Hazardous Substances>

Regulation	Hazardous substance	
RoHS	heavy metals(Pb, Cd, Hg, Cr ⁶⁺), brominated flameretardant (PBBs, PBDEs), chlorinated compounds (PCBs, etc), formaldehyde, azo compounds, asbestos, Ni · Sn · As & its compounds, ozonlayer destroying material (halons, cfcs, etc), phthalates(plasticizer), other brominated/chlorinated flame retardants, PVC, At · Se · Pd · Bs & its compounds	Class II Class III
PoHS	brominated flame retardants(HBCDD, etc.), parafin chlorides(MCCP, etc.), Aromatics(muskxylen, etc), organic tin compounds(TBT, DBT, etc), Perfloro compounds(PF0A/PF0S, etc), surface-activie agent, others(bisphenol-A, etc)	Norway Regulation
REACH	above 1 ton chemicals by hazard and amount : registration, evaluation, authorization & restriction *SVHCs(Substances of Very High Concern); DEHP, HBCDD, antracene, etc.	EU regulation on chemicals & their use
HR 4040	lead & phthalate in the children's product(under age 12): apparel, button, zipper, surface print/coating, jewelry, toy, footwear, etc. phthalates in all children's toy that can be mouthed	Consumer Product Safety Improvement Act(CPSIA)
Oeko-Tex	pH, formaldehyde, heavy metals(Sb, As, Co, Cu, Ni), pesticides, chlorinated phenols, phthalates, organic tin compounds, organic volatiles, chlorinated carrier, azo/carcinogenic/allergenic dyestuff, flame retardants, asbestos, determination of odours, etc.	Certification of environment mark
VOCs	aromatic compounds(benzene, toluene, xylene, styrene, etc.), formaldehyde, acetaldehyde, tvocs, tetradecane, CO, CO2, dust, etc.	Volatile Organic Compounds
POPs	dioxins, furans, aldrin, endrin, dieldrin, toxapen, chlorodane, hepachloro, hexachloro benzene, PCBs, etc.	Persistent Organic Pollutants
Halogen	halogen-free, pvc-free, PFOS/PFOA	computer, LCD, etc.
Domestic Regulation	several domestic act and ordinances(the industrial products safety/ quality management act, etc.)	

Functional Testing(physically & mechanically)



It is important to evaluate, analyze, and certify by physical/mechanical testing the diverse intrinsic properties and functions of industrial/consumer products. All kinds of testing with extensive/intensive expertise & equipment ensure the quality, performance, and safety of products.

General Function

- Figures (structure, composition, shape, content, measure, density, weight, etc.)
- $\textbf{ § Strength (tensile} \cdot tear \cdot burst \cdot junction \cdot piercing \cdot peeling \cdot impact \cdot seam, etc.)$
- Durability (light resistance, weather resistance, abrasion resistance, corrosion resistance, low-temperature resistance, flexibility resistance, chemical resistance, etc.)
- Oclor fastness (to lights, washing, perspiration, drycleaning, water, sea water, bleaching, ironing, etc.)
- Soundproof(sound absorption), air permeation, waterproof, water permeation, leakage, water-repellent, noise, etc.
- Flammability, combustibility, smoke density, UL-94 burning, thermal conductivity, friction drag, glide resistance, conductivity, composite atmosphere, etc.

General Function

- Washing machine; energy-saving efficiency, noise, clothes damage, washability, rinsing, dehydration coefficient, etc.
- Detergent; washability, color change, sterilizing effect, pH, bleaching effect, surface tension, skin irritation, etc.
- Military uniform; infrared reflection

Environment-Friendly Testing



Customers look for Environment-Friendly green products, which are healthy for the human body and environment. Customers are inclined to choose them with good cognition and confidence due to intimate preferences.

General Function

- Asbestos quantity and quality analysis
- Bio · degradability on the plastics
- Biomass (Bio-based carbon) content analysis
- Anti-mildew/anti-bacteria analysis on the healthy goods
- Malogen-free detection on the electronic/electrical appliances
- Others
 - $\boldsymbol{\cdot}$ Certification Testing for acquiring the Environmental Certification Mark
 - · Far-infrared emission, Ultraviolet isolation, Anion/cation emission, Ozon resistance

KATRi is specialized in preventing claims between suppliers and consumers and minimizing the cost and burden of quality assurance issues. We provide quick and accurate inspection services based on years of experience and expertise.



Inspection on the end-user products is important to prevent the defected products from being marketed prior to production, sale, export and import.

Also feedback is essential for product design in order to eliminate claims as well as contribute to quality improvement and sales promotion.

General Function

- Textile products: skirt, trousers, jacket, dress, coat, shirt, jumper, blouse, children's wear, etc.
- Leathers: leather clothing, bag, wallet, belt, shoes, handbag, etc.

Inspection Items

Stitching, sticking state(accessary, button, zipper, print, etc), labelling, size, contamination, figures, ironing, cutting, etc.



Quality / Safety Mark

Compulsory Certication Mark (KC)



For public health & safety, companies are required to obtain prior certification from authorized bodies before they can put certain products on the market. Accordingly, companies are obligated to label their products with the KC mark. Items that require compulsory certification are specified in related laws and ordinances.

In case of violating the above, it is concomitant with the corresponding legal measures such as certification withdrawal, selling suspension, products destruction, negligence fine, penalty, or penal servitude.

Regulated Items

Items (handled by KATRi) • Textile products for infant, Mountain-climb rope, Adhesives • Thermal Pack, Chemical products, Care articles for children • Nursing Pads, Disposable diapers, Moist tissues Self-Regulatory Safety • Toys, Baby Carriage, Children's cots, Baby walking frames • Textile products for children, Textile Products, Leather products • Carpets, Tent, Sunglasses, Glasses Frame, Swimming goggles • High-visibility warming jackets, Swab, Tissue, Beauty Soap • Senior shoes, Bath chair, False eyelashes • Wallpapers and floor coverings on a base of paper • Furniture, Umbrella & Parasol, Flexible polyvinyl chloride hoses · Metal Jewelry in contact with skin, Candle, Eyelid tape Safety/Quality • Children's Jewelry Labelling

What is KC(Korea Certification) Mark?

It is a nationally unified/integrated certification mark in order to relieve enterprises of an economic burden, inconveniences, and confusions by many duplicate certification and to enable consumers to choose good products' quality under the single mark. (enforcement : July 1, 2009)





Quality Assurance Mark

As customers are inclined to choose the best products offering specific performance in the sphere of environment, sanitary, and safety, product quality is guaranteed by the authorized testing/certification body's strict evaluation and management.



The goal to obtain the Quality Assurance Mark is to enhance the brand image of enterprises, to broaden product's knowledge for consumer, and to give a good opportunities to sales promotion.



KATRi Label

Excellent specific function to washing/cleaning washing machines and detergent, cleaner, etc.



EQ (Eco Quality)

Authorized mark by KAS products considering environment-friendly factors

Superior Mark for textile products: consumer products including textile products



good quality



gentleman's / lady's suit, golfwear



down / feather -filling products

Other functional mark



anti-mildew anti-bacteria



ultraviolet isolation



aroma additive



formaldehyde



far-infrared

emission

Shape of GH Mark

GH is the initial 'Good Health', A in circle symbols the shape of leaf associated with environment-friendly image.

R&D / Technical Assistance Service



R&D is the most powerful way and effective tool to vitalize and activate the enterprise's business.

KATRi helps enterprises (especially, small/medium sized companies) achieve global competitiveness by enhancing technology.

R&D (Research and Development)

- Testing and evaluation on the company's bottlenecked technology
- Testing and verification on high value-added technology
- Development of standard and test method
- R&D with Industry-University collaboration of the textile & chemical materials

Technical Assistance

- Technology and Quality Advising & Consulting for the enterprises
- Seminar, Forum, Education and Training for quality improvement
- Providing data and market information on the technology and quality
- Establishing a technical network in collaboration with Industry University Institute
- Vitalizing the interchange of the technology and market information

Reliability Assessment



KATRi performs analysis, assessment, and evaluation to maintain the original function, property, and life-cycle of materials, parts, products, and systems under the given conditions.

Corresponding Fields

- Textile materials: high-tech./high-quality fabrics, sports/leisure fabrics, comfortable fabrics, etc.
- Industrial materials: protective clothes, soundproof material for construction, other plastic/rubber/ leather materials, etc.

Main Activities

- Collection and Analysis on the reliability assessment materials
- Testing evaluation on the product's performance, life-cycle estimation
- Development on the testing assessment standards & system
- Failure analysis and cause examination
- Life-cycle elongation on equipment, efficiency enhancement of the maintenance/repair/operation on equipment



KATRi supports domestic companies in obtaining foreign certificates through MOU's with competent testing/certification bodies abroad. We have cooperative partnerships under several MOU's in the field of testing, certification, and business for textile products and industrial/consumer products.

By means of cooperation, KATRi is dedicated to assist manufacturers and exporters in providing trustworthy and high-quality goods.

Cooperative Main Partners

- Jul. 1989 QTEC, Japan
- Mar. 2004 STR, USA
- Nov. 2005 ERDOS, China
- Apr. 2006 STTS, China
- May 2006 RENZING, Austria
- Feb. 2008 TRI, Vietnam
- Jun. 2008 BWJS, China
- Aug. 2008 ITC, the Czech Republic
- Oct. 2011 CENTEXBEL, Belgium
- Dec. 2011 TÜV SÜD, Korea
- Apr. 2012 MTS, USA









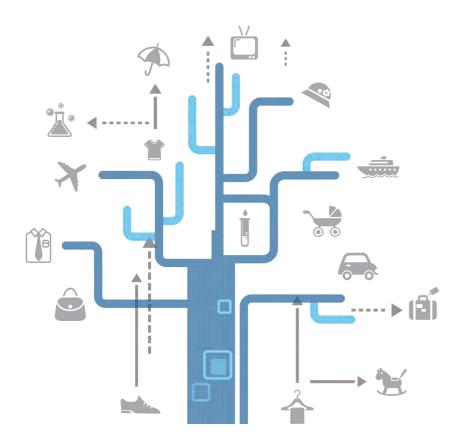




Business Activities

- Performing to inter-laboratory study and proficiecy test
- Reciprocal certification
- Issuing co-branded test reports in cooperation with QTEC and MTS
- Providing and exchanging the technical support and market information
- Studying and training for certain professional testing
- Development of test standard and method
- Holding the Meeting(including a regular annual meeting) & seminar, etc.

Home & Overseas Offices



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KATRi will strive to provide the best customer service and quality management system based on trust and professionalism.



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