

Brochure 2019

TURNKEY SOLUTIONS FOR QUALITY CONTROL RESEARCH & DEVELOPMENT LABORATORIES

About Us

Our motivation and purpose

TT is a professional service provider in turnkey laboratory solutions, from designing and building world class laboratories to supplying laboratory equipment and supplies. We do also provide consultancy and training services on GLP (Good Laboratory Practices), ISO17025, laboratory management, effective and feasible laboratory design complying to worldwide standards.



With more than 20 years of experience, a highly skilled technical

team and reputable partners, Protek is the leading choice of partner

by our customers.

Consultancy on laboratories;

- Infrastructure
- Gas, electrical, air conditioning, facilities, water systems
 - Layout planning
 - 2D, 3D, isometric drawings
 - Fumehoods and air flow
 - Storage
 - Waste management
 - Work flow planning
 - Equipment and supplies planning
 - Manpower planning
 - Training of lab technicians

Our Mission:

• To give the best service by delivering high quality products, on time

delivery and after sales support

• To provide our customers with professional and efficient services

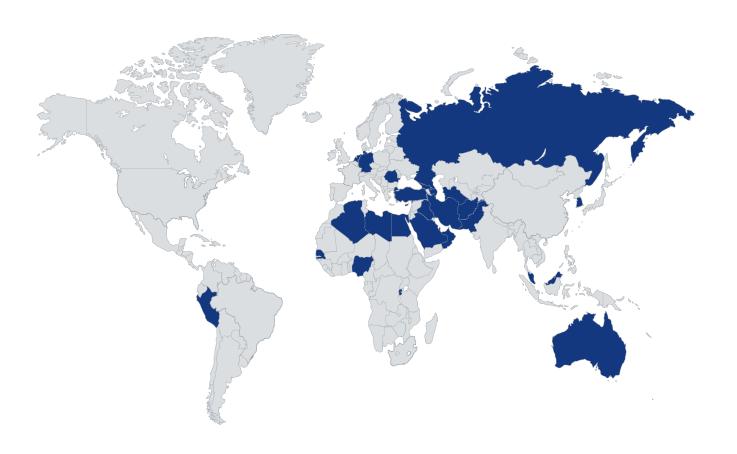
in a manner reflecting our commitment to the highest standards

available today

• Being recognised by our employees and our clients for excellence and integrity

Where we are?

Our works on global scale



What we do?

Services we provide

- Architectural Design
- Design and Build;
- R&D and QC Laboratories
- Process Laboratories
- Molecular Biology and Genetical Laboratories
- Clean Room and HVAC Applications which comply with GLP, GMP Standards
- Food, Feed, Pharma, Veterinary, Agricultural and Environmental Analysis Labs
- Pilot Scale Manufacturing Plants
- Supply of Laboratory Equipment

Areas we specialized

- Food Industry;
- Soft Drinks & Beverages
- Dairy
- Confectionery
- Meat & Poultry
- Seafood
- Fruit & Vegetables
- Flour & Bakery
- Frozen Foods
- Water
- Animal Feed

Non-Food Industry;

- Pharmaceutical
- Biology & Molecular Biology
- Veterinary
- Agriculture
- Chemistry and Petro-Chemistry
- Educational



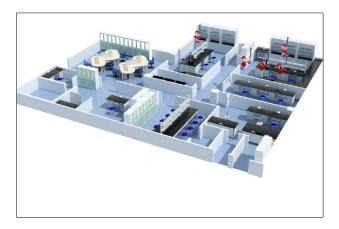
WE SET THE STANDARDS FOR QUALITY AND EFICIENCY

TURNKEY LAB ESTABLISHMENT

- TURNKEY LAB DESIGN & PLANNING ACCORDING TO ISO 17025
- LAB BENCHES, CUPBOARDS, SHELVES
- FUMEHOODS, DRAFT CHAMBER UNITS
- LOCAL EXTRACTION ARMS, SUCTION UNITS
- LAMINAR FLOW CABINETS
- ATMOSPHERIC CONTROLLED ROOMS
- BIOSAFETY CABINETS, CLASS I, CLASS II
- CLEANROOMS (CLASS 1000, CLASS 10.000, CLASS 100.000)
- PASSBOX SYSTEMS
- AIRLOCK SYSTEMS
- AIRSHOWER UNITS
- SPECIAL DESIGNED BSL I, BSL II, BS III TYPE CLEAN ROOMS
- MOBILE CONTAINER LABORATORIES ACCORDING TO BSL I, BSL II, BSL III LEVEL

Laboratory Design and Build

- Complying to ISO 17025 and related International Standards
- From A to Z, including infrastructure like electrical, air conditioning and gas systems
- Customized Solutions
- Best quality materials
- Professional expertise input and consultancy



Laboratory Design and Build



Furnishing



Laboratory Benches

The Laboratory Benches are available with three different types of cabinets.

- Suspended Cabinets
- Mobile Cabinets
- Pedestal Cabinets

Suspended Cabinet: In this setup the under bench cabinets are suspended to the C-Frame. There is a space of 180 mm height between the floor and the underside of the cabinets. Mobile Cabinet: In this setup the under bench cabinet are placed on the floor. The cabinets are similar to the suspended cabinets.

Mobile Cabinet: In this setup the under bench cabinet are placed on the floor. The cabinets are similar to the suspended cabinets.

Pedestal Cabinet: In this setup the benches do not use the C-frames. The cabinets are mounted on a pedestal and thus directly placed on the floor.

Cleanroom / HVAC Solutions

Designs and Products;

- Cleanroom panel
- False ceilings
- Hinged and sliding doors
- Pass-boxes, hatch boxes
- Air showers
- Laminar flow units
- Laboratory benches, lockers, etc.

Turnkey Applications;

- HVAC,
- Automatic control,
- Piping and plumbing

Areas Specialized In;

- Pharmaceuticals Industry
- Medical Industry
- Electronic Industry
- Glass industry,
- Nanotechnology
- High Patogene Virus Laboratories
- Dry rooms.





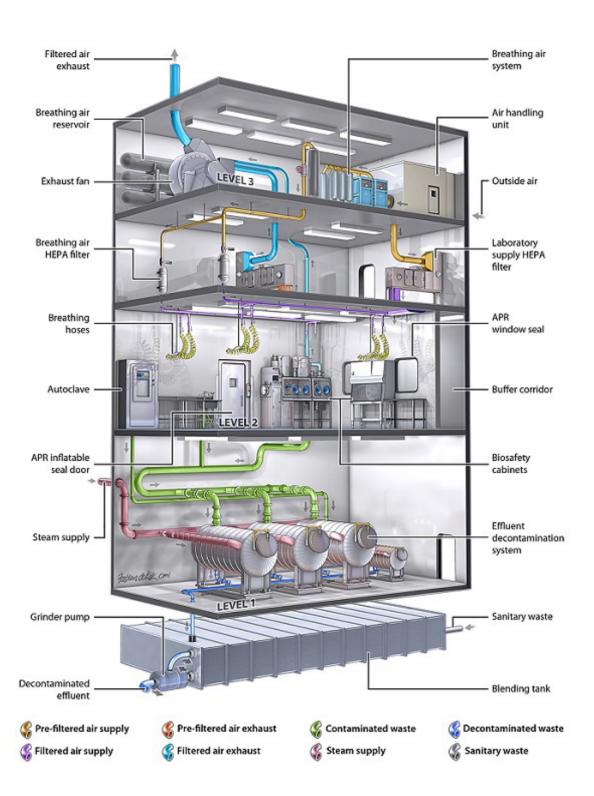




Gas-Tight Door



- ISO 14644 class 5-8 cleanrooms for electronic and nanotechnology
- cGMP and GLP class A-D cleanrooms for health related Laboratories
- Biosafetyclass 1-3 containment Laboratories (High patogeneviruses, radiopharmaceutical, vaccine, etc.)
 - Cleanroom panel, doors, pass-boxes, etc.
 - DIN 25496, KTA 3601 Gas-tight doors, pass-boxes and dampers with inflatable sealing
 - Decontamination showers, disinfection locks
 - Air showers
 - Softwall clean cabins
 - Laminar Air Flow Units for operation theaters, electronic Labs, dispensing hoods
 - Vaporised hydrogene peroxide





To Higher Quality Standards..

Mobile Container Laboratories









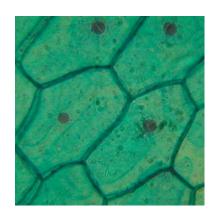
LABORATORY EQUIPMENT & SUPPLIES

- PHYSICAL TESTING LAB EQUIPMENT
- CHEMICAL ANALYSIS LAB EQUIPMENT
- MYCOTOXIN, HORMONE, ALLERGEN, VETERINARY DRUG & PESTICIDE RESIDUE ANALYSIS LABS
- MICROBIOLOGY & MOLECULAR BIOLOGY LABS
- Packaging & Material Testing Systems
- RESEARCH & DEVELOPMENT (R&D) LAB EQUIPMENT

Physical Testing Lab Equipment

- Organoleptic Analysis Lab
- Particle Size and Characterisation
- Viscosity Testing and Rheological Analysis
- Mills, Crusher, Homogenisers, Mixers
- Shakers
- Sample Dividers
- Sorting Systems
- Foreign Body Detection
- Tensile Testing Systems
- Burst Testing
- Force Testing
- Permeability
- Transparency







Chemical Analysis Lab Equipment

- Protein Analysis
- Fat, Oil Content Testing
- Raw Fiber, Dietary Fiber, Lignin Anaysis
- Moisture, Dry Matter, Volatility Testing
- Salt Content Analysis
- Free Fatty Acids, Total Acidity
- Volatile Free Fatty Acids
- Brix, Refractive Index and Sugar Analysis
- Starch and Carbohydrate Analysis
- pH, Conductivity Analysis
- Ion Selective Measuring
- Ash Content, Dry Matter Testing
- Vitamin, Mineral and Elemental Analysis
- Colour, Turbidity Analysis
- Instrumental Analysis Equipments

(HPLC, AAS, ICP, GC, GC-MS, LC-M, Ion Chromatography)

- Spectrophotometric Analysis (VIS, UV/VIS, NR, FT-NIR)
- Water Activity Testing
- Titrimetric Analysis Equipments







Mycotoxin, Hormone, Allergen, Veterinary Drug & Pesticide Residue Analysis Labs

- Mycotoxins
- (Aflatoxin B1, Total, M1)
- Ochratoxin
- Zearalenone
- Vomitoxin
- Deoxyvalenol (DON)
- Patulin
- Fumonisin
- T2 / HT-2 Toxin
- Ergot Alkaloids
- Hormones & Anabolisans
- Contaminants
- Veterinary Drug Residue Analysis
- Pesticide & Herbicides Analysis
- Food Allergens
- Enzymatic Food Analysis

Microbiology & Molecular Biology Labs

Sample Preparation Systems

- Homogenizers, Mixers
- Stomacher Blenders
- Air Sampling Systems
- Specific Sampling Probes, Sondes
- Automated Autoclaving Systems & Media Preparation Units
- Petri Pouring, Filling & Stacking Systems
- Robotic Media Filling Systems
- Dehydrated Culture Media, Agars, Broth,

Supplements

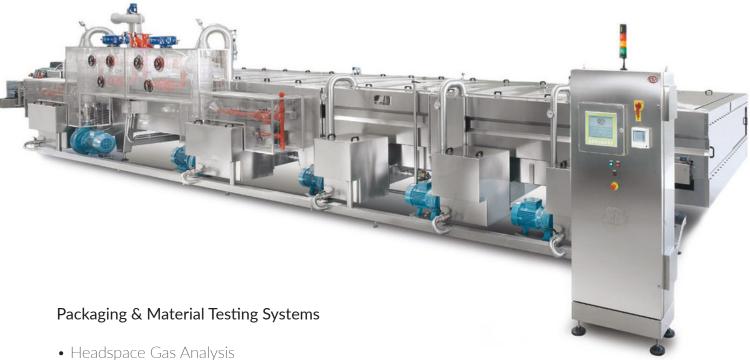
- Membrane Filtration Systems
- Rapid, Easy To Use Microbiological Testing Kits (Aerobic, Anaerobic Count, Coliform, E. Coli, Fecal Coliform, Yeast & Mould,

Enterobacteriacea, Staph Aureus)

- ATP Based Microbiological & Hygiene Control Monitoring Systems
- Specially Designed Swabs, Broths & Dilution Products
- Molecular Based Bacteria Detection & Identification Equipments, Pathogen Bacteria Testing Systems (Salmonella, Listeria, L.Monocytogenes, E.Coli 0157 / H7, STEC, Campylobacter, Pseudomonas)
 - GMO Testing Lab Establisment & GMO Testing Kits
 - Meat Speciation Testing Products
 - ELISA, Fluorometric, Chemiluminescence Analysis
 - PCR, Real Time PCR, Microarray Based Testing Systems And Consumables







- Torque Testing
- Cap Testing
- Seam Inspection
- Enamel Rater
- Burst Testing
- TDP Load Testing
- Stress Crack Tester
- Sampling Devices
- Tunnel Pasteurisation
- Carbonation Testing
- CO2 Recovery Systems
- CO2 Purity Tester
- MAP (Modified Atmosphere Packaging) Systems
- Leakage Tester
- Permeability Test
- Foam Testing

Research & Development (R&D) Lab Equipment

- Texture Analysis
- Shelf Life Testing
- Product Stability Testing
- Aging Testing
- Headspace Gas Analysis
- Modified Atmosphere Packaging (MAP) Testing
- Package Design, R&D Equipments



PROCESS CONTROL & MONITORING SYSTEMS

IN-LINE, ON-LINE NIR ANALYSIS SYSTEMS





NON-DESTRUCTIVE QUALITY CONTROL SYSTEMS





PROCESS PHOTOMETERS





MEASURING PARAMETERS

- MOISTURE PROTEIN
- DRY MATTER STARCH COLOUR
- FAT

- LACTOSE ASH
- CONCENTRATION
 TURBIDITY

- PH
- ACIDITY ETC.

CALIBRATION & MAINTENANCE SERVICES

Our metrology/calibration services keep your laboratory equipment accurate and in efficient working order. Lab Services highly trained experts will:

- Clean and calibrate your lab equipment regardless of brand
- Perform work in our depot or as an on-site service
- Manage a single point calibration or all of the equipment in your lab

Learn more about our services for lab equipment including:

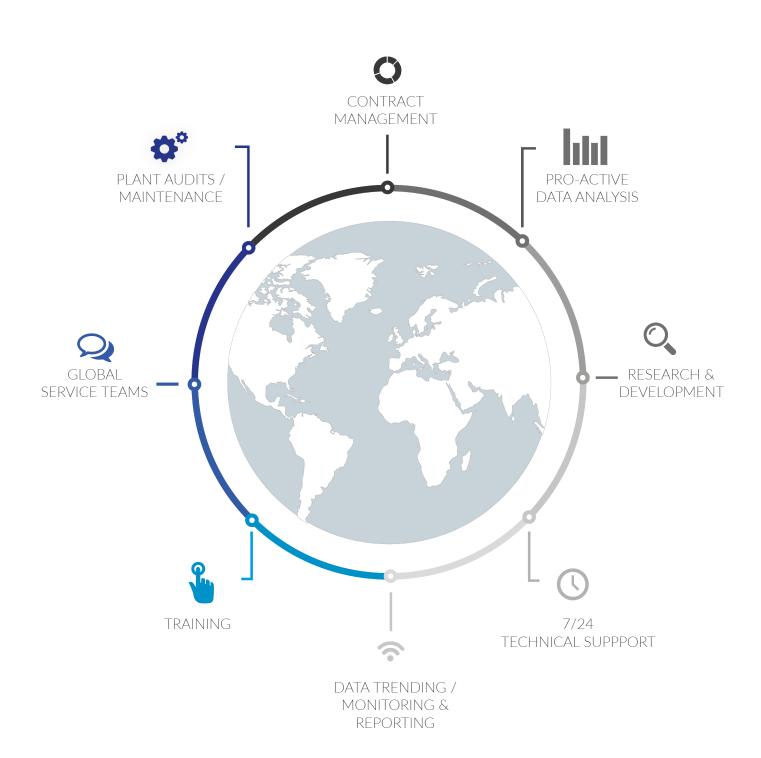
- Thermometers & Hydrographs (Calibration)
- Micropipette (Testing & Calibration)
- Ovens, Baths, Climactic Chambers, Electronic Refractometers & Balances (Test Reports)







TAKING SERVICE TO THE NEXT LEVEL



More Control / Better Economics / Optimal Utilization

Today, service is much more than just repair and maintenance. On-site, the service team gathers valuable information on the specific conditions of the operation. With performance data monitoring, we are able to acquire longterm information, which ensures that troubleshooting and service activities can be very efficient when needed.

TT offers service planning, for preventative maintenance, emergency repairs, and customer-specific maintenance schedules. Our technical service and after sales services keep your laboratory and process equipments in accurate and efficient working condition.

Lab Services highly trained experts will:

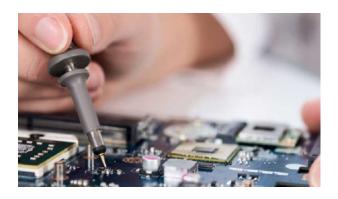
- Clean, test, repair and calibrate your lab or process equipments regardless of brand
- Perform work in our depot or as an on-site service
- Manage a single point calibration or all of the equipment in your lab

By doing this, take preventative measures to help minimize maintenance time and unscheduled downtime.

The periodic services help minimize maintenance time and unscheduled downtime with prevantative measures taken by our specialized technical services team.

Key Features

- · Preventative and corrective maintenance
- · Original replacement parts planning
- · User and technical training on site
- · 24/7 phone technical support
- · Experienced support and service personnel





GEORGIA

What we have done?

Turnkey projects list

ABKHAZIA UNIVERSITY

ABRII AGROBÍOTECHNOLOGY BSL3 LAB

ACIBADEM HELATHCARE GROUP ACCREDITED LAB ISTANBUL

AFT

GERMANY

AK GIDA TURKEY

ALJOMAIH PEPSI BEVERAE KINGDOM OF SAUDI ARABIA

ALMANHAL FOODS

UAE

UAE

ALMARAI FOOD BAKERY KINGDOM OF SAUDI ARABIA

ALMARAI FOOD DAIRY LAB KINGDOM OF SAUDI ARABIA

ALMARAI MEAT LAB

KINGDOM OF SAUDI ARABIA

KINGDOM OF SAUDI ARABIA

KINGDOM OF SAUDI ARABIA

AL TAMEEM KARWANCHI JUICE FACTORY IRAQ

ALTERNA GIDA ZUBER SNACK
TURKEY

ALTINGIDA MEAT INTEGRATED FACILITIES

TURKEY

ANADOLU ETAP TARIM

ANADOLU GIDA

TURKEY

ARDEŞEN SU TURKEY

ARI ARITMA TURKMENISTAN

AROMA MEYVE SULARI A.Ş.

AROMATICS OMAN L.L.C.

UMMAN

ARTEMİS GIDA (MEZIZ APPETIZER FACTORY)

TURKEY

ASAŞ ALÜMİNYUM

ASİLÇELİK A.Ş.

TURKEY

ASYEM SANAYİİ TURKEY

ASKON - NAKHCHIVAN CUSTOMS AZERBAIJAN

ATATURK INDUSTRIAL ESTATE TREATMENT LAB

ATTASAMI MEDICAMENT'S AND MEDICAL EQU.

TURKEY

AYFROST FROZEN FOOD FAVTORY LABS

TURKEY

AYSO GIDA TATLI KAŞIK MILK PUDDINGS FACTORY

AZERBAIJAN

AZ - LAB AZERBAIJAN

AZERBAIJAN AZERSUN (QAZAX CANNED) LABS **AZERBAIJAN** AZERSUN HOLDING PAPER FACTORY LABS AZERSUN HOLDING KURDEMIR MILK LABS **AZERBAIJAN** AZERSUN HOLDING QAZAX IQF NOURISHMENT LABS **AZERBAIJAN** AZERSUN HOLDING SUMGAYIT OIL FACTORY **AZERBAIJAN** AZERSUN HOLDING FORAGE FACTORY LABS **AZERBAIJAN** BAKLAVACI GÜLLÜOĞLU **TURKEY** BALSU GIDA A.Ş. (CAPRISUN BEVERAGE) TURKEY BATMAN TİCARET BORSASI LAB **TURKEY BAYER R&D LABS TURKEY BAYER TURK LABS TURKEY**

BAYRAKLI BOYALARI LABS KINGDOM OF SAUDI ARABIA

BAZYAN RAFINERI LABS

BEKO TV ARITMA TESİSİ LAB

TURKEY

BERCE TARIM AGROBIOTEKNOLOGY LAB

BESLER BİZİM OIL FACTORY (ÜLKER AŞ.)

TURKEY

BINGHATTI BEVERAGES KINGDOM OF SAUDI ARABIA

TURKEY BIOCAMPUS BIWATER INTERNATIONAL LIBYA **BIWATER INTERNATIONAL ROMANIA** BİLİM İLAÇ SAN. A.Ş. **TURKEY BOLCA HINDI INTEGRATED FACILITIES TURKEY BRUNEI LABORATUVARLARI BRUNEI BULANCAK FINDIK (YAMAN ROCHIS) TURKEY BUNGE YAĞ SANAYİİ LABS** TURKEY CATONI PERSA GÖZETME EXPERT LABS **TURKEY** CİRAV FINDIK **TURKEY**

COCA COLA AZERBAIJAN FACTORY LABS AZERBAIJAN

COCA COLA AUJAN IRAN
COCA COLA ARBIL LABS IRAQ
COCA COLA MULTAN LABS PAKISTAN

COCA COLA FAISALABAD LABS PAKISTAN COCA COLA SUDAIR LABS KINGDOM OF SAUDI ARABIA CYPRI COLA **CYPRUS** MEZAN BEVERAGE LAB **PAKISTAN** D.S.İ. 8. BÖLGE MÜDÜRLÜĞÜ ANALYSIS LABS **TURKEY DANONE R&D CENTRE TURKFY DANONE WATER LAB TURKEY** DANONESA AKMINA MINERAL WATER LABS **TURKEY DARMSTADT BAKERY PRODUCTS TURKFY DELTA NOURISHMENT LABS TURKEY DELTARES LABS** HOLLAND **DORUK GRUP R&D LABS TURKEY DOSU MAYA TURKEY** DSD FERROMETAL CO. **EGYPT DUMLUPINAR UNIVERSITY LABS TURKEY EASTERN MEDITERRANEAN UNIVERSITY CYPRUS** ECZACIBAŞI ÖZGÜN KİMYA **TURKEY** EDİP İPLİK SAN. A.Ş **TURKEY EID CONSTRUCTION** IRAQ **EKER SÜT TURKEY** TURKEY EKSİM UN VE YEM FAB. A.Ş. **EL-MERK ALGERIA** LIBYA **EL FATTAH UNIVERSITY LABS ELİT TARIM TURKEY EMAL ALUMINIUM** UAE EMBİL İLAÇ İSTANBUL **TURKFY ENDER ÇİKOLATA LABS TURKEY ERCIYES UNIVERSITY LABS TURKEY ERİKLİ SU TURKEY TURKEY EURONUT PEANUT PROCESSING INTEGRATED FACILITIES FASDAT - BURGER KING TURKEY EGYPT** FERROMETALCO C.O. S.A.E. **TURKEY** FORD OTOSAN AŞ. FRESH CAKE GIDA SAN. A.Ş. **TURKEY TURKEY** FRITOLAY TARSUS FACTORY FRUTAŞ TARIM AGROIOTEKNOLOGY LAB **TURKEY GASSI TOUILL ALGERIA**

GEBZE ORGANIZED INDUSTRY ZONE TREATMENT FACILITY LABS **TURKEY GEBZE TECHNICAL UNIVERSITY TURKEY GENERAL ELECTRIC AVIATION TURKEY** GIDASA (SAKA SU - DEREN CAY) **TURKFY** GIRNE AMERICAN UNIVERSITY **CYPRUS GMH MEDIZINTECHNIK** A7FRBAIJAN **GOEMA GEZER GRUP TURKEY GORGON AUSTRALIA GULF DRILLING SUPPLY** A7FRBAIJAN **GULF SCIENTIFIC CORPORATION** UAE **GULF SCIENTIFIC CORPORATION** LIBYA **GULF UNION BEVERAGES** KSA **GURBUZ NUT INTEGRATED TURKEY** HACETTEPE UNIVERSITY STEMCELL CENTRE **TURKEY** HACIBABA BAKLAVA TURKEY HADAF FOODS / PINAR ABUDHABI UAE HALKEKMEK CEBECI FACTORY LABS **TURKEY** ILAM PETROCHEMICAL COMPLEX IRAN **INNOVATIVE FOODS** KSA INTERNATIONAL HOUSE OF BUILDING KAZAKHSTAN **INTERSUN AZERBAIJAN IREX ARCADY GIDA TURKEY** TURKFY IŞIK TARIM ORGANİK İ.T.Ü. DEPARTMENT OF PHYSICAL CHEMISTRY LAB **TURKEY İKBAL ET TURKEY İSKİ TUZLA BIOLOGICAL TREATMENT LABS** TURKFY ISTANBUL HALK EKMEK LABS **TURKEY IZEL KIMYA** TURKEY **KAANLAR SÜT TURKEY** KADIKÖY MUNICIPALITY CENTER OF DIABETICS LABS **TURKEY TURKEY** KARAHANCI ÇAY KAZAKHSTAN **KAZCHROME TURKEY KEREVİTAŞ** KEŞAN GIDA MÜFREZE KOMUTANLIĞI LABS **TURKEY** KOMİLİ ÜLKER COSMETIC **TURKEY** KONYA SUGAR FORAGE FACTORY **TURKEY** KÖKSAN PACKAGE PET PREFORM LAB **TURKEY**

TURKEY

KRAFT CIPS FAB. R&D LAB

TURKEY

KÜÇÜKYALI LEVAZIM MALİYE SCHOOL LAB **TURKEY** LESAFFRE BAKERY YEAST **TURKEY** DUBAI **LONDON DAIRY** LUDVIG TOGO GIDA SAN. A.S. **PAKISTAN** MALATYA PAZARI NUTS FACTORY **TURKEY** MAM FOOD DUBAL **MARC TECHNOLOGIES SENEGAL** MARMARA NUCLEAR MEDICAL **TURKEY** MARMARA UNIVERSITY FACULT OF PHARMACY TURKFY MARMARA UNIVERSTIY PHYSIC LAB **TURKEY** MARS CHOCOLATE BAHRFYN MCCORMICK FOOD LAB **DUBAI MEDICOM DAIRY NIGERIA** MENKAN (NOVO NORDISK) KİMYA SAN. A.Ş. **TURKEY** MERCEDES BENZ TURK **TURKEY MERKO GIDA TURKFY** MEYKON KONSANTRE LAB **TURKEY** MONDELEZ **BAHREYN** MONROL NUCLEAR TURKFY NAKHICHEVAN CUSTOM LABS **NAKHICHEVAN** NAMSA (NATO) HOSPITAL **AFGHANISTAN NESTLE MİS MILK LABS TURKEY** DUBAL **NESTLE** UAE **NESTLE WATERS ABUDHABI TURKEY NEUTEC - BASEL MEDICAL** NIOC (NATIONAL IRANIAN OIL COMPANY) IRAN NİĞDE GAZOZ MEŞRUBAT SANAYİİ **TURKEY AZERBAIJAN NORM OASIS FOODS** UAE **TURKEY** OĞUZ GIDA İÇECEK SANAYİ LABS **OLTAN NUT INTEGRATED FACTORY LABS TURKEY** OMAN OMAN AROMATIC LTD. ORYC GTL **QATAR OYAK RENAULT CAR FACTORY LABS TURKEY TURKEY OZON WATER FACTORY LABS** ÖZTÜRKLER UN VE YEM SAN. A.Ş. **TURKEY** PAK PİLİÇ **TURKEY**

PANAGRO MEAT INTEGRATED LAB

PERU LNG PERU PETROL OFISI LABS TURKEY PIDMCO (PETROCHEMICAL INDUSTRIES D.M. CO.) **IRAN** POLÍNAS PACKAGE FACTORY LABS **TURKEY** POLYPLEX EUROPA POLYESTER **TURKEY** PREMIER FOODS KSA **QALAALTI HOTEL AZERBAIJAN** QURASHI COSMETICAL IND. KSA **RONESANS HOLDING** TURKMENISTAN SABAHATTİN ZAİM UNI. CHEMISTRY & FOOD EN. LABS **TURKEY** SAĞLAM GIDA **AZERBAIJAN** SAKHALIN ENERGY INVESTMENT COMPANY **RUSSIA** SANİTER ACCREDIT FOOD ANALYSIS LABS **TURKEY** SANOFI - DOĞU İLAÇ A.Ş. **TURKEY** SANOVEL ILAC TURKEY SAUDI ARABIA MEDICAL PROJECT KSA SEHER FORAGE INDUSTRY **TURKEY** SEIC (SAKHALIN ENERGY INVESTMENT COMPANY) **RUSSIA** SEZGİNLER GIDA SAN. A.Ş. TURKFY MALAYSIA SHELL BINTULU **SHELL MAJNOON** IRAQ SHELL QATAR GTL **QATAR** SİRKECİ İÇ TEDARİK BAŞKANLIĞI LEVAZIM LABS **TURKFY** SOUTH PARS GAS DEVELOPMENT FIELD IRAN STARCON FRUIT CONSANTRATE FACTORY **TURKEY** SUNAR MISIR ENTEGRE TESISLERI ADANA TURKFY ŞEN PİLİÇ ENTEGRE TAVUKÇULUK **TURKEY** TURKEY T.C. PRIME MINISTRY CUSTOMS LABS T.C. CUSTOMS LABS **TURKEY TURKEY** T.K.K.B. ANADOLU MILK FACTORY T.S.E. QUALITY CAMPUS LABS **TURKEY** TACİROĞLU - PEYSAN SÜT FAB. A.Ş. KEŞAN - EDİRNE TURKEY TAHSİLDAROĞLU SÜT **TURKEY** TAKREER RRE ABU DHABI UAE **TURKEY** TANOĞLU TT MEAT INTEGRATED FACILITIES

TECHNIP SOUTH KOREA

TURKEY

OATAR

TAT STARCH - GLUCOSE INDUSTRY LABS

TECHNIP MIDDLE EAST ORYX GTL

TURKEY

TURKEY

YILDIZ TECHNICAL UNIVERSITY BIOENGINEERING LABS

ZEFIRIUM İÇECEK FACTORY



2019

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