



INTERNATIONAL  
ACCREDITATION  
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# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **OPTIVAL BELGELENDIRME HIZMETLERI A.S.**

EVLIYA CELEBI MH. KUME SOKAK TUZLA TICARET MERKEZI NO:2C/15  
ISTANBUL, 34944, REPUBLIC OF TURKEY

### **Inspection Agency AA-809 (Type A)**

has met the requirements of AC98, *IAS Accreditation Criteria for Inspection Agencies*, and has demonstrated compliance with ISO/IEC Standard 17020:2012, *Conformity assessment - Requirements for the operation of various types of bodies performing inspection*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date June 21, 2023



**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## OPTIVAL BELGELENDİRME HİZMETLERİ A.S.

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**Contact Phone** +90-5467704100

*Accredited to ISO/IEC 17020:2012*

*Effective Date June 21, 2023*

Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
Automobile Emissions	Regulation (EU) 2016/1628 (Replacement of Directive 97/68/EC)
Automotive approval inspections	<p>Manual of tests and criteria Section 38.3, United Nations Recommendations on the Transport of Dangerous Goods</p> <p>Directive 2005/64/EC: Type-approval of motor vehicles with regard to their reusability, recyclability and recoverability</p> <p>Regulation (EU) 2019/2144: General safety (new version of 661/2009/EC)</p> <p>Regulation (EU) No. 540/2014: Sound level of motor vehicles and of replacement silencing systems</p> <p>Regulation (EC) No. 595/2009: Type-approval of motor vehicles and engines with respect to emissions from heavy duty vehicles (Euro VI) and on access to vehicle repair and maintenance information</p> <p>Regulation (EC) No. 715/2007: Type approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information</p> <p>Regulation (EU) 2018/858 (Replacement of Directive 2007/46/EC)</p> <p>Regulation (EU) 2021/535 Annex II Statutory plate VIN number Annex III Registration plate space Annex IV Windscreen Wiper and Washer Systems Annex V Wheel guards Annex VII Towing devices</p>

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<p>Automotive approval inspections (cont'd.)</p>	<p>Annex VIII Spray suppression systems            Annex X Vehicle access            Annex XI Reversing motion            Annex XII Frontal protection system            Annex XIII Masses and dimensions</p> <p>ISO 19453 Environmental conditions and testing for electrical and electronics equipments for drive system of electric propulsion vehicles - traction battery packs and systems</p> <p>IEC 62133: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications</p> <p>IEC 62281: Safety of primary and secondary lithium cells and batteries during transport</p> <p>IEC 62619: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications</p> <p>IEC 62660-2: Secondary lithium-ion cells for the propulsion of electric road vehicles. Part 2: Reliability and abuse testing</p> <p>IEC 62660-3: Secondary lithium-ion cells for the propulsion of electric road vehicles. Part 3: Safety requirements</p> <p>SORT Testing: Standardised on-road test cycles for buses (SORT) – UITP Project E-SORT Cycles</p> <p>UNECE R-3: Uniform provisions concerning the approval of retro-reflecting devices for power-driven vehicles and their trailers</p> <p>UNECE R-4: Uniform provisions concerning the approval of devices for the illumination of rear registration plates of power-driven vehicles and their trailers</p> <p>UNECE R-6: Uniform provisions concerning the approval of direction indicators for power-driven vehicles and their trailers</p>

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Automotive approval inspections (cont'd.)	<p>UNECE R-7: Uniform provisions concerning the approval of front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles (except motorcycles) and their trailers</p> <p>UNECE R-10: Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility</p> <p>UNECE R-11: Door latches and door retention components</p> <p>UNECE R-12: Uniform provisions concerning the approval of vehicles with regard to the protection of the driver against the steering mechanism in the event of impact</p> <p>UNECE R-13: Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking</p> <p>UNECE R-13-H: Uniform provisions concerning the approval of passenger cars with regard to braking</p> <p>UNECE R-14: Uniform provisions concerning the approval of vehicles with regard to safety-belt anchorages, ISOFIX anchorages systems and ISOFIX top tether anchorages</p> <p>UNECE R-16: Uniform provisions concerning the approval of: 1 safety-belts, restraint systems, child restraint systems and ISOFIX child restraint systems for occupants of power-driven vehicles, 2 vehicles equipped with safety belts, restraint systems, child restraint systems and ISOFIX child restraint systems</p> <p>UNECE R-17: Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints</p> <p>UNECE R-18: Uniform provisions concerning the approval of motor vehicles with regard to their protection against unauthorized use</p> <p>UNECE R-19: Uniform provisions concerning the approval of power- driven vehicle front fog lamps</p>

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Automotive approval inspections (cont'd.)	<p>UNECE R-21: Uniform provisions concerning the approval of vehicles with regard to their interior fittings</p> <p>UNECE R-23: Uniform provisions concerning the approval of reversing and manoeuvring lamps for power-driven vehicles and their trailers</p> <p>UNECE R-24: Uniform provisions concerning I The approval of Compression Ignition (C.I.) Engines With regard to the emission of visible pollutants, II The approval of motor vehicles with regard to the installation of C.I. Engines of an approved type, III The approval of motor vehicles equipped with C.I. Engines with regard to the emissions Of visible Pollutants by the engine, IV The measurement of power of C.I. Engine</p> <p>UNECE R-25: Uniform provisions concerning the approval of head restraints (headrests), whether or not incorporated in vehicle seats</p> <p>UNECE R-26: Uniform provisions concerning the approval of vehicles with regard to their external projections</p> <p>UNECE R-28: Uniform provisions concerning the approval of audible warning devices and of motor vehicles with regard to their audible signals</p> <p>UNECE R-29: Uniform provisions concerning the approval of vehicles with regard to the protection of the occupants of the cab of a commercial vehicle</p> <p>UNECE R-32: Rear end collision</p> <p>UNECE R-34: Uniform provisions concerning the approval of vehicles with regard to the prevention of fire risks</p> <p>UNECE R-38: Uniform provisions concerning the approval of rear fog lamps for power-driven vehicles and their trailers</p> <p>UNECE R-39: Uniform provisions concerning the approval of vehicles with regard to the speedometer and odometer equipment including its installation</p>

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<p>Automotive approval inspections (cont'd.)</p>	<p>UNECE R-43: Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles</p> <p>UNECE R-44: Uniform provisions concerning the approval of restraining devices for child occupants of power-driven vehicles ("Child Restraint Systems")</p> <p>UNECE R-46: Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices</p> <p>UNECE R-48: Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signaling devices</p> <p>UNECE R-49: Uniform provisions concerning the measures to be taken against the emission of gaseous and particulate pollutants from compression-ignition engines and positive ignition engines for use in vehicles</p> <p>UNECE R-51: Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their sound emissions</p> <p>UNECE R-55: Uniform provisions concerning the approval of mechanical coupling components of combinations of vehicles</p> <p>UNECE R-58: Uniform provisions concerning the approval of: I. Rear underrun protective devices (RUPDS), II. Vehicles with regard to the installation of an RUPD of an approved type, III. Vehicles with regard to their rear underrun protection (RUP)</p> <p>UNECE R-61: Uniform provisions concerning the approval of commercial vehicles with regard to their external projections forward of the cab's rear panel</p> <p>UNECE R-66: Uniform provisions concerning the approval of large passenger vehicles with regard to the strength of their superstructure</p> <p>UNECE R-73: Uniform provisions concerning the approval of: I. Vehicles with regard to their lateral protection devices (LPD), II. Lateral protection devices (LPD), III. Vehicles with regard to the</p>

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Automotive approval inspections (cont'd.)	<p>installation of LPD of an approved type according to Part II of this Regulation</p> <p>UNECE R-77: Uniform provisions concerning the approval of parking lamps for power-driven vehicles</p> <p>UNECE R-79: Uniform provisions concerning the approval of vehicles with regard to steering equipment</p> <p>UNECE R-80: Uniform provisions concerning the approval of seats of large passenger vehicles and of these vehicles with regard to the strength of the seats and their anchorages</p> <p>UNECE R-83: Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements</p> <p>UNECE R-85: Uniform provisions concerning the approval of internal combustion engines or electric drive trains intended for the propulsion of motor vehicles of categories M and N with regard to the measurement of net power and the maximum 30 minutes power of electric drive trains</p> <p>UNECE R-87: Uniform provisions concerning the approval of daytime running lamps for power-driven vehicles</p> <p>UNECE R-89: Speed limitation of devices</p> <p>UNECE R-90: Replacement brake lining assemblies, drum brake linings and discs and drums for power-driven vehicles and their trailers</p> <p>UNECE R-91: Uniform provisions concerning the approval of side-marker lamps for motor vehicles and their trailers</p> <p>UNECE R-93: Uniform provisions concerning the approval of: I. Front underrun protective devices (FUPDS), II. Vehicles with regard to the installation of an FUPD of an approved type, III. Vehicles with regard to their front underrun protection (FUP)</p> <p>UNECE R-94: Uniform provisions concerning the approval of vehicles with regard to the protection of the occupants in the event of a frontal collision</p>

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Automotive approval inspections (cont'd.)	<p>UNECE R-95: Uniform provisions concerning the approval of vehicles with regard to the protection of the occupants in the event of a lateral collision</p> <p>UNECE R-97: Vehicle Alarm Systems (VAS)</p> <p>UNECE R-98: Uniform provisions concerning the approval of motor vehicle headlamps equipped with gas-discharge light sources</p> <p>UNECE R-100: Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train</p> <p>UNECE R-101: Uniform provisions concerning the approval of passenger cars powered by an internal combustion engine or powered by a hybrid electric power train with regard to the measurement of the emission of carbon dioxide and fuel consumption and/or the measurement of electric energy consumption and electric range, and of Categories M1 and N1 vehicles powered by an electric power train only with regard to the measurement of electric energy consumption and electric range</p> <p>UNECE R-105: Uniform provisions concerning the approval of vehicles intended for the carriage of dangerous goods with regard to their specific constructional features</p> <p>UNECE R-107: Uniform provisions concerning the approval of category M2 or M3 vehicles with regard to their general construction</p> <p>UNECE R-109: Uniform provisions concerning the approval for the production of retreaded pneumatic tyres for commercial vehicles and their trailers (Except Annex 10)</p> <p>UNECE R-110: Uniform provisions concerning the approval of: I. Specific components of motor vehicles using compressed natural gas (CNG) and/or liquefied natural gas (LNG) in their propulsion system, II. Vehicles with regard to the installation of specific components of an approved type for the use of compressed natural gas (CNG) and/or liquefied natural gas (LNG) in their propulsion system</p>



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Automotive approval inspections (cont'd.)	<p>UNECE R-111: Uniform provisions concerning the approval of tank vehicles of categories N and O with regard to rollover stability</p> <p>UNECE R-112: Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or light-emitting diode (LED) modules</p> <p>UNECE R-116: Uniform technical prescriptions concerning the protection of motor vehicles against unauthorized use</p> <p>UNECE R-118: Uniform provisions concerning the burning behaviour and/or the capability to repel fuel or lubricant of materials used in the construction of certain categories of motor vehicles</p> <p>UNECE R-120: Internal combustion engines to be installed in agricultural and forestry tractors and in non-road mobile machinery, with regard to the measurement of the net power, net torque and specific fuel consumption</p> <p>UNECE R-121: Uniform provisions concerning the approval of vehicles with regard to the location and identification of hand controls, tell-tales and indicators</p> <p>UNECE R-122: Uniform provisions concerning the approval of vehicles of categories m, n and o with regard to their heating systems</p> <p>UNECE R-125: Forward field of vision</p> <p>UNECE R-126: Partitioning systems</p> <p>UNECE R-127: Uniform provisions concerning the approval of motor vehicles with regard to their pedestrian safety performance</p> <p>UNECE R-129: Uniform provisions concerning the approval of Enhanced Child Restraint Systems (ECRS) used on board of motor vehicles</p> <p>UNECE R-130: Uniform provisions concerning the approval of motor vehicles with regard to the Lane Departure Warning System (LDWS)</p>

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Automotive approval inspections (cont'd.)	<p>UNECE R-131: Uniform provisions concerning the approval of motor vehicles with regard to the Advanced Emergency Braking Systems (AEBS)</p> <p>UNECE R-133: Uniform provisions concerning the approval of motor vehicles with regard to their reusability, recyclability and recoverability</p> <p>UNECE R-134 Part 3 Hydrogen and fuel cell vehicles (HFCV)</p> <p>UNECE R-135: Pole side impact</p> <p>UNECE R-136: Uniform provisions concerning the approval of vehicles of Category L with regard to specific requirements for the electric power train (Except Annex 7 and 9)</p> <p>UNECE R-137: Frontal full-width impact</p> <p>UNECE R-138: Quiet road transport vehicles with regard to their reduced audibility (qrv)</p> <p>UNECE R-139: Brake Assist Systems</p> <p>UNECE R-140: Uniform provisions concerning the approval of passenger cars with regard to Electronic Stability Control (ESC) Systems</p> <p>UNECE R-141: Tyre Pressure Monitoring Systems</p> <p>UNECE R-142: Uniform provisions concerning the approval of motor vehicles with regard to the installation of their tyres</p> <p>UNECE R-144: Uniform provisions concerning the Accident Emergency Call Systems (AECS). Ci.17, 26, 35</p> <p>UNECE R-145: Child restraint anchorages</p> <p>UNECE R-148: Light signaling devices</p> <p>UNECE R-149: Uniform provisions concerning the approval of road illumination devices (lamps) and systems for power-driven vehicles</p>

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Automotive approval inspections (cont'd.)	<p>UNECE R-150: Uniform provisions concerning the approval of retro-reflective devices and markings for power-driven vehicles and their trailers</p> <p>UNECE R-151: Uniform provisions concerning the approval of motor vehicles with regard to the Blind Spot Information System for the Detection of Bicycles</p> <p>UNECE R-152: Advanced emergency braking system (AEBS)</p> <p>ECE R153 Fuel system integrity and electric power train safety at rear-end collision</p> <p>UNECE R-154: Uniform provisions concerning the approval of light duty passenger and commercial vehicles with regards to criteria emissions, emissions of carbon dioxide and fuel consumption and/or the measurement of electric energy consumption and electric range (WLTP). Appendix 1, 2, 3, 4, 5, 6 Annex A1, B1, B4, B6 (excluding Appendix 3), B7, B8 (excluding Appendix 5 and Appendix 6)</p> <p>UNECE R-155: Uniform provisions concerning the approval of vehicles with regards to cyber security and cyber security management system. Cl. 7, 8, Annex 5</p> <p>UNECE R-156: Uniform provisions concerning the approval of vehicles with regards to software update and software updates management system. Cl. 7, 8.</p> <p>ECE R158 Devices for means of rear visibility or detection</p> <p>ECE R159 Moving Off Information System (MOIS)</p> <p>ECE R161 Devices against Unauthorized Use</p> <p>ECE R162 Immobilizers</p> <p>ECE R163 Vehicle Alarm systems</p> <p>UL 1642: UL Standard for Safety Lithium Batteries</p>

UNECE: United Nations Economic Commission for Europe – Regulation No. 109

Note: This accreditation is for inspection activity only.