



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **ATBS CO., LTD. (APPROVAL & TESTING BUSINESS SOLUTIONS)**

RM #708-1 GEUMGANG PENTERIUM IT TOWER, 557 DONGTANGIHEUNG-RO, HWASEONG-SI  
GYEONGGI-DO, 18469, SOUTH KOREA

### **Inspection Agency AA-821 (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 April 17, 2024



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## ATBS CO., LTD. (APPROVAL & TESTING BUSINESS SOLUTIONS)

[www.atbsap.com](http://www.atbsap.com)

**Contact Name** Donghwa Woo

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*Accredited to ISO/IEC 17020:2012*

*Effective Date April 17, 2024*

Field and Range of Inspection		Regulations, Inspection Methods, Standards and/or Specifications
<b>Vehicle Category - M (Passenger cars, Buses and Coaches), N (Trucks and Vans) and O (Trailers)</b>		
Framework Regulation	Framework Regulation Annex IV §2 Initial Assessment	Reg. EU 2018/858
	Framework Regulation Annex IV §3 Product conformity	Reg. EU 2018/858
	Framework Regulation Annex IV §3 Continued Verification Arrangements	Reg. EU 2018/858
Sound Level	Permissible sound level	Reg. EU 540/2014 UN Reg. 51
	Quiet road transport vehicles (QTRV)	UN Reg. 138
Emissions & Fuel/Electric power efficiency	Emissions (Euro 5 and 6) light-duty vehicles / access to information	Reg. EU 715/2007
	Emissions (Euro VI) heavy-duty vehicles / access to information	Dir. EC. 595/2009 UN Reg. 49
	Diesel smoke, Emissions of M1 and N1 vehicles, CO2 emissions and fuel consumption	UN Reg. 24, UN Reg. 83, UN Reg. 101
	Measurement of the net power	UN Reg. 85
	Worldwide harmonized light vehicles test procedure (WLTP)	UN Reg. 154
	Real Driving Emissions (RDE)	UN Reg. 168
Recyclability	Reusability, Recyclability and Recoverability (R.R.R)	Dir. EC 2005/64; UN Reg. 133
Emergency call	eCall system; Accident Emergency Call Systems (AECS)	Reg. EU. 2015/758; UN Reg. 144
Air-conditioning	Air-conditioning systems	Dir. EC 2006/40
Safety items annexed to General Safety Regulation Reg. EU 2019/2144 (Reg. EC 661/2009)	General Safety Regulation (GSR)	Reg. EU 2019/2144 (Reg. EC 661/2009)
	Rear underrun protective devices (RUP)	UN Reg. 58
	Space for mounting and fixing front and rear registration plates	Reg. EU 2021/535 Annex III (Reg. EU 1003/2010)
	Steering equipment	UN reg. 79
	Vehicle access and manoeuvrability (steps, running boards and handholds)	Reg. EU 2021/535 Annex X Reg. EU 130/2012

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Safety items annexed to General Safety Regulation Reg. EU 2019/2144 (Reg. EC 661/2009) (cont'd.)	Door latches and door retention components	UN Reg. 11
	Audible warning devices and signals	UN Reg. 28
	Devices for indirect vision and their installation	UN Reg. 46
	Braking	UN Reg. 13 & 13H
	Brake Assist Systems (BAS); Advanced Emergency braking systems (AEBS)	UN Reg. 139; UN Reg. 131 & 152
	Replacement brake lining assemblies, drum-brake linings and discs and drums	UN Reg. 90
	Electromagnetic compatibility (EMC)	UN Reg. 10
	Interior fittings	UN Reg. 21
	Protection against unauthorized use, immobilizer and alarm systems	UN Reg. 18; UN Reg. 97; UN Reg. 116; UN Reg. 161; UN Reg. 163
	Protection of the driver against the steering mechanism	UN Reg. 12
	External projections	UN Reg. 26
	Reversing motion	Reg. EU 2021/535 Annex XI (Reg. EU 130/2012)
	Speedometer equipment and its installation	UN Reg. 39
	Manufacturer's statutory plate and VIN	Reg. EU 2021/535 Annex II Reg. EU 19/2011
	Anchorage - Safety belt anchorages, ISOFIX anchorages systems and ISOFIX Top tether anchorages; ISOFIX anchorage systems, ISOFIX top tether anchorages and i-Size seating positions;	UN Reg. 14; UN Reg. 145
	Safety-belts, restraint systems, child restraint system and ISOFIX child restraint systems	UN Reg. 16
	Seats - Seats, their anchorages and any head restraints; Seats of large passenger vehicles	UN Reg. 17, UN Reg. 80
	Child restraint systems; Enhanced Child Restraint Systems (ECRS)	UN Reg. 44, UN Reg. 129
	Lighting - Installation of lighting and light signaling devices; Retro reflecting devices; Front and rear position lamps, stop-lamps and end-outline marker lamps; Daytime running lamps; Side marker lamps; Direction indicators; Rear registration plate lamps; Headlamps (sealed beam) asymmetrical; Filament lamps for use in approved lamp units; Headlamps with gas-discharge light sources; Gas-discharge light sources for use in	UN Reg. 48, UN Reg. 3, UN Reg. 7, UN Reg. 87, UN Reg. 91, UN Reg. 6, UN Reg. 4, UN Reg. 31, UN Reg. 37, UN Reg. 98, UN Reg. 99, UN Reg. 112, UN Reg. 123, UN Reg. 19, UN Reg. 38, UN Reg. 23, UN Reg. 77, UN Reg. 113, UN Reg. 148, UN Reg. 149, UN Reg. 150

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Safety items annexed to General Safety Regulation Reg. EU 2019/2144 (Reg. EC 661/2009) (cont'd.)	approved gas-discharge lamp units; Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules; Adaptive front lighting systems (AFS); Front fog lamps; Rear fog lamps; Reversing lamps; Parking lamps; Headlamps emitting a symmetrical passing-beam; Light Signaling Devices (LSD); Road Illumination Devices (RID); Retro-Reflective Devices (RRD)	
	Towing devices	Reg. EU 2021/535 Annex VII (Reg. EU 1005/2010)
	Location and identification of hand controls, tell-tales and indicators	UN Reg. 121
	Forward field of vision	UN Reg. 125
	Windscreens - Windscreen defrosting and demisting systems; Windscreen wiper and washer systems	Reg. EU 2021/535 Annex VI (Reg. EU 672/2010), Reg. EU 2021/535 Annex IV (Reg. EU 1008/2010)
	Heating systems	UN Reg. 122
	Wheel guards	Reg. EU 2021/535 Annex V (Reg. EU 1009/2010)
	Head restraints whether or not incorporated in vehicles seats	UN Reg. 25
	Lateral protection	UN Reg. 73
	Spray-suppression systems	Reg. EU 2021/535 Annex VIII (Reg. EU 109/2011)
	Masses and Dimensions	Reg. EU 2021/535 Annex XIII (Reg. EU 1230/2012)
	Safety glazing	UN Reg. 43
	Tyres - Installation of tyres; Temporary-use spare unit, run-flat tyres and TPMS; Tyre Pressure Monitoring Systems (TPMS)	Reg. EU 458/2011, UN Reg. 64, UN Reg. 141, UN Reg. 142
	Speed limitation of vehicles	UN Reg. 89
	External projections forward of the cab's rear panel	UN Reg. 61
	Mechanical Couplings	UN Reg. 55
	Close-coupling devices (CCD)	UN Reg. 102
	Burning behaviour of materials used in the interior construction	UN Reg. 118
	M2 and M3 Vehicles	UN Reg. 107
	Strength of superstructure of large passenger vehicles	UN Reg. 66
Prevention of fire risks (liquid fuel tanks)	UN Reg. 34	
Frontal collision	UN Reg. 94	
Lateral collision	UN Reg. 95	

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Safety items annexed to General Safety Regulation Reg. EU 2019/2144 (Reg. EC 661/2009) (cont'd.)	Pole side impact	UN Reg. 135	
	Frontal collision with focus on restraint system	UN Reg. 137	
	Fuel system integrity and safety of electric power train	UN Reg. 153	
	Vehicles for the carriage of dangerous goods	UN Reg. 105	
	Front under-run protection (FUP)	UN Reg. 93	
	Pedestrian protection	UN Reg. 127	
	Hydrogen system; Hydrogen and fuel cell vehicles (HFCV)	Reg. EU 2021/535 Annex XIV UN Reg. 134	
	Gear shift indicator	Reg. EU 2021/535 Annex IX (Reg. EU. 65/2012)	
	Lane departure warning system	UN Reg. 130	
	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	UN Reg. 67	
	Electric powertrain safety	UN Reg. 100	
	Specific components for CNG and their installation on motor vehicles	UN Reg. 110	
	Cab strength	UN Reg. 29	
	Emergency lane keeping system (ELKS)	Reg. EU 2021/646	
	Intelligent speed assistance (ISA)	Reg. EU 2021/1958	
	Alcohol interlock installation facilitation (AIF)	Reg. EU 2021/1243	
	Driver drowsiness and attention warning (DDAW)	Reg. EU 2021/1341	
	Advanced Driver Distraction Warning (ADDW)	Reg. EU 2023/2590	
	Headlamp cleaners and their installation	UN Reg. 45	
	Electronic Stability Control (ESC)	UN Reg. 140	
	Blind Spot Information System for the Detection of Bicycles (BSIS)	UN Reg. 151	
	Cyber security and cyber security management system	UN Reg. 155	
	Software update and software update management system	UN Reg. 156	
	Automatic lane keeping system (ALKS)	UN Reg. 157	
	Reversing detection; Reversing warning	UN Reg. 158; UN Reg. 165	
	Event data recorder (EDR)	Reg. EU 2022/545 UN Reg. 160	
	Vulnerable road users in front and side close proximity	UN Reg. 166	
	Approval of motor vehicles with regard to their direct vision	UN Reg. 167	
	Other safety items	Advance warning triangles	UN Reg. 27
		Rear-end collision	UN Reg. 32
Foot controls		UN Reg. 35	



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	Measurement of maximum speed	UN Reg. 68
<b>Vehicle Category - L (Motorcycles, Mopeds and Quadricycles) Regulation (EU) 168/2013</b>		
Framework Directive	Framework Directive Annex X §1 Initial Assessment	Reg. EU 168/2013, 44/2014 Annex IV
	Framework Directive Annex X §2 Product conformity	Reg. EU 168/2013, 44/2014 Annex IV
	Framework Directive Annex X §3 Continued Verification Arrangements	Dir Reg. EU 168/2013, 44/2014 Annex IV
Sound Level	Permissible sound level	Reg. EU 134/2014 Annex IX
	Noise of motorcycles	UN Reg. 41, 92
	Audible warning devices	Reg. EU 3/2014 Annex II UN Reg. 28
	Noise of L2, L4 and L5 category vehicles	UN Reg. 9
	Noise of mopeds	UN Reg. 63
Technical Requirements	Procedures and technical requirements on maximum vehicle design speed, maximum torque, maximum continuous total power and maximum peak power	Reg. EU 134/2014, Annex X
Emissions	Environmental test procedures related to exhaust emissions, evaporative emissions, greenhouse gas emissions, fuel consumption and reference fuels	Reg. EU 134/2014 Annex II to VIII UN Reg. 40, 47
Safety	Electrical safety	Reg. EU 3/2014 Annex IV
	Manufacturer declaration requirements regarding endurance testing of functional safety-critical systems, parts and equipment	Reg. EU 3/2014 Annex V
	Front and rear protective structures	Reg. EU 3/2014 Annex VI
	Glazing, windscreen wipers and washers, and defrosting and demisting systems	Reg. EU 3/2014 Annex VII UN Reg. 43
	Driver-operated controls including identification of controls, tell-tales and indicators	Reg. EU 3/2014 Annex VIII UN Reg. 60
	Rollover protective structure (ROPS)	Reg. EU 3/2014 Annex XI
	Safety-belt anchorages and safety-belts (installation); Safety-belt anchorages and safety-belts (component)	Reg. EU 3/2014 Annex XII UN Reg. 16
	Vehicle occupant protection, including interior fittings and vehicle doors	Reg. EU 3/2014 Annex XVII
	Requirements on vehicle structure integrity	Reg. EU 3/2014 Annex XIX
	Devices to prevent unauthorised use	Reg. EU 44/2014 Annex VI UN Reg. 62
	Protective helmets and their visors	UN Reg. 22

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Parts	Braking - Braking, including anti-lock and combined brake systems, Braking of L category vehicles	Reg. EU 3/2014 Annex III UN Reg. 78
	Lighting - Installation of lighting and light- signaling devices, including automatic switching of lighting; Installation of lamps (L3 category vehicles); Installation of lamps (L1 category vehicles); Rearward visibility; Front position lamps, rear position lamps, stop lamps, direction indicators, rear registration plate lamps (category L vehicles)	Reg. EU 3/2014 Annex IX UN Reg. 50, 53 & 74
	Rearward visibility	Reg. EU 3/2014 Annex X UN Reg. 46, 81
	Seating positions (saddles and seats)	Reg. EU 3/2014 Annex XIII
	Tyres - Installation of tyres, Pneumatic tyres (motorcycles and mopeds)	Reg. EU 3/2014 Annex XV; UN. Reg. 75
	Vehicle maximum speed limitation plate and its location on the vehicle	Reg. EU 3/2014 Annex XVI
	Maximum continuous total power and/or maximum vehicle speed limitation by design	Reg. EU 3/2014 Annex XVIII
	Powertrain tampering prevention measures (anti-tampering)	Reg. EU 44/2014 Annex II
	Arrangements for type-approval procedures	Reg. EU 44/2014 Annex III
	Conformity of production	Reg. EU 44/2014 Annex IV
	Coupling devices and attachments	Reg. EU 44/2014 Annex V
	Electromagnetic compatibility (EMC)	Reg. EU 44/2014 Annex VII UN Reg. 10
	External projections	Reg. EU 44/2014 Annex VIII
	Fuel storage	Reg. EU 44/2014 Annex IX
	Load platforms	Reg. EU 44/2014 Annex X
	Masses and dimensions	Reg. EU 44/2014 Annex XI
	On-board diagnostics (OBD) functional requirements	Reg. EU 44/2014 Annex XII
	Passenger handholds and footrests	Reg. EU 44/2014 Annex XIII
	Registration plate space	Reg. EU 44/2014 Annex XIV
	Access to repair and maintenance information	Reg. EU 44/2014 Annex XV
	Stands	Reg. EU 44/2014 Annex XVI
	Statutory plate	Reg. EU 901/2014 Annex V
	Electric Vehicles Category L	UN Reg. 136
Steer-ability, cornering properties and turn-ability	Reg. EU 3/2014 Annex XIV	
<b>Vehicle Category - T (Agricultural/Forestry Tractors)</b>		
<b>Regulation (EU) 167/2013</b>		
Framework Directive	Framework Directive Annex X §1 Initial Assessment	Reg. EU 167/2013; EU 1322/2014 IV

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	Framework Directive Annex X §2 Product conformity	Reg. EU 167/2013; EU 1322/2014 IV
	Framework Directive Annex X §3 Continued Verification Arrangements	Reg. EU 167/2013; EU 1322/2014 IV
Sound Level	Driver's exposure to noise level	Reg. EU 1322/2014 Annex XIII
	External sound level	Reg. EU 2018/985 - Annex II (2015/96 Annex III)
Safety	Vehicle structure integrity	Reg. EU 2015/208 Annex II
	Maximum design speed, speed governors and speed limitation devices	Reg. EU 2015/208 Annex III;
	Steering for fast tractors; Steering	Reg. EU 2015/208 Annex IV, V
	Audible warning devices	Reg. EU 2015/208 Annex XVI
	Devices to prevent unauthorised use	Reg. EU 2015/208 Annex XVIII
	Safety of electrical systems	Reg. EU 2015/208 Annex XXIV
	Rear protective structures	Reg. EU 2015/208 Annex XXVI
	Lateral protection	Reg. EU 2015/208 Annex XXVII
	Driver's exposure to noise level	Reg. EU 1322/2014 Annex XVII
	Protection of drive components	Reg. EU 1322/2014 Annex XVII
	Seat-belt anchorages	Reg. EU 1322/2014 Annex XVIII
	Safety belts	Reg. EU 1322/2014 Annex XIX
	OPS (Protection against penetrating objects)	Reg. EU 1322/2014 Annex XX
	Protection against other mechanical hazards	Reg. EU 1322/2014 Annex XXIV
Emissions	Pollutant emissions	Reg. EU 2018/985 - Annex I (2015/96 Annex II)
	Diesel emission (agricultural tractors)	Reg. EU 2016/1628 UN Reg. 96;
Technical Requirements	Maximum design speed, speed governors and speed limitation devices	Reg. EU 2015/208 Annex III;
	Power of internal combustion engines for tractors or NRMM	UN Reg. 120
Parts	Braking - Braking devices and trailer brake coupling	Reg. EU 2015/68
	Steering - Steering for fast tractors	Reg. EU 2015/208 Annex IV, V
	Speedometers	Reg. EU 2015/208 Annex VI
	Field of vision and windscreen wipers	Reg. EU 2015/208 Annex VII
	Mirrors/Windows - Glazing (installation), Glazing (component), Rear-view mirrors (installation), Rear-view mirrors (component)	Reg. EU 2015/208 Annex VIII, IX
	Lighting - Lighting, light-signaling devices and their light sources; Lighting installation	Reg. EU 2015/208 Annex XII, XIII
	Driver information systems	Reg. EU 2015/208 Annex X
	Vehicle exterior and accessories	Reg. EU 2015/208 Annex XIV



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Parts (cont'd.)	Electro-magnetic compatibility	Reg. EU 2015/208 Annex XV
	Heating systems	Reg. EU 2015/208 Annex XVII
	Registration plates	Reg. EU 2015/208 Annex XIX
	Statutory plates and markings	Reg. EU 2015/208 Annex XX
	Dimensions and trailer masses	Reg. EU 2015/208 Annex XXI
	Maximum laden mass	Reg. EU 2015/208 Annex XXII
	Ballast masses	Reg. EU 2015/208 Annex XXIII
	Fuel tanks	Reg. EU 2015/208 Annex XXV
	Load platforms	Reg. EU 2015/208 Annex XXVIII
	Towing devices	Reg. EU 2015/208 Annex XXIX
	Tyres - Tyres (installation), Tyres (component)	Reg. EU 2015/208 Annex XXX
	Spray-suppression systems	Reg. EU 2015/208 Annex XXXI
	Reverse gear	Reg. EU 2015/208 Annex XXXII
	Tracks	Reg. EU 2015/208 Annex XXXIII
	Mechanical couplings	Reg. EU 2015/208 Annex XXXIV
	ROPS (dynamic testing); ROPS (tracklaying tractors); ROPS (static testing); ROPS (front mounted ROPS on narrow-track tractors); ROPS (rear mounted ROPS on narrow-track tractors); FOPS (Falling objects protection structures)	Reg. EU 1322/2014 Annex VI, VII, VIII, IX, X, XI
	Passenger seats	Reg. EU 1322/2014 Annex XII
	Driving seat and position	Reg. EU 1322/2014 Annex XIV
	Operating space and to access to the driving position	Reg. EU 1322/2014 Annex XV
	Power take-offs	Reg. EU 1322/2014 Annex XVI
	Exhaust system	Reg. EU 1322/2014 Annex XXI
	Operator's manual	Reg. EU 1322/2014 Annex XXII
	Control devices, including safety and reliability of control systems and emergency and automatic stop devices	Reg. EU 1322/2014 Annex XXIII
	Information warnings and markings	Reg. EU 1322/2014 Annex XXVI
	Material and products	Reg. EU 1322/2014 Annex XXVII
	Batteries	Reg. EU 1322/2014 Annex XXVIII
	Emergency exit	Reg. EU 1322/2014 Annex XV
	Cab ventilation and filtration system	Reg. EU. 1322/2014 Annex XXIX
	Burning rate of cab material	Reg. EU 1322/2014 Annex XXVII