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گواهینامه تایید صلاحیت آزمایشگاه
Laboratory Accreditation Certificate

The National Accreditation Center of Iran (NACI)
herewith confirms that :

مرکز ملی تایید صلاحیت ایران بدین وسیله تایید می نماید که :

**Automotive Industries Research &
Innovation Center of SAIPA Laboratory**

**آزمایشگاه آزمون مرکز تحقیقات و نوآوری
صنایع خودرو سایپا**

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Has fulfilled the **ISIRI-ISO/IEC 17025**.

الزامات استاندارد ایران - ایزو/آی ای سی ۱۷۰۲۵ را رعایت نموده است.

And is competent to carry out Test Calibration
services according to accreditation scope are listed in
13 page/s of annex.

و صلاحیت انجام خدمات آزمون کالیبراسیون مطابق دامنه
کاربردی که جزئیات آن در ۱۳ برگ پیوست آمده است را داراست.

NACI Registration No. : NACI/Lab/920

شماره گواهینامه تایید صلاحیت: NACI/Lab/920

Initial Accreditation Date and Place: 2016.12.18-Tehran

تاریخ و محل صدور اولیه گواهینامه : ۱۳۹۵/۰۹/۲۸ - تهران

Renewal Date : -

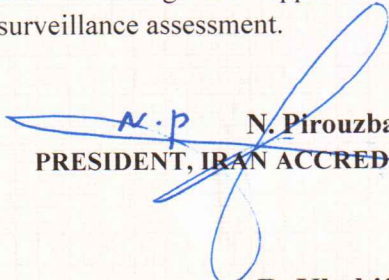
تاریخ صدور مجدد گواهینامه : -

Expiry Date : 2019.12.17

تاریخ خاتمه اعتبار گواهینامه : ۱۳۹۸/۰۹/۲۷

Validity of Accreditation Certificate depends on
continuity of compliance with the relevant requirements
and obtaining the approval based on the annual
surveillance assessment.

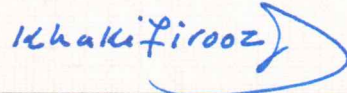
حفظ اعتبار در طول دوره منوط به استمرار انطباق با ضوابط مربوطه و
اخذ تاییدیه در ارزیابی های مراقبتی سالانه است.


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نیره پیروزبخت
رئیس شورای تایید صلاحیت ایران

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NACI PRESIDENT

علیرضا خاکی فیروز
رئیس مرکز ملی تایید صلاحیت ایران


A.R. Khakifirooz


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No	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
1	Road Vehicle M1 & N1 Category	-	✓	Verifying Emission after cold start (Type I Test)	CO : 18 – 1750 PPM CO ₂ : 0.4375 – 17.5 % Nox : 9 – 900 PPM CH ₄ : 180 – 190 PPM C ₃ H ₈ : 8.75 – 875 PPM	ISIRI 7328 clause 1-3-7 EEC/70/220, Annex III ECE R 83, Annex 4a
				Carbon Monoxide Emission Test at Idling Speed (Type II Test)	CO : 18 – 1750 PPM	ISIRI 7328 clause 2-3-7 EEC/70/220, Annex IV ECE R 83, Annex 5
				Verifying Emission of Crank case Gases (Type III Test)	Crankcase Pressure (- 100 to 100)	ISIRI 7328 clause 3-3-7 EEC/70/220, Annex V ECE R 83, Annex 6
				Determination of evaporative emissions from vehicles (Type IV)	P=370±10 mmH ₂ o	ISIRI 7328 clause 4-3-7 EEC/70/220, Annex VI , Clause 7) ECE R 83, Annex 7 , clause 7
				Wheel Power of performance test for road vehicle	P = 10kw – 130kw V= 50km/h – 130km/h	Q-I-PR-0087
				Determining Dioxide emission and fuel consumption	CO ₂ : 0.4375 – 17.5 %	ISIRI 4241/2, ISIRI 14627 EEC/80/1268

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2	Two or three-vehicle	-	✓	Checking the average emissions of gaseous pollutants in a congested urban area (Type I)	CO : 18 – 1750 PPM CO ₂ : 0.4375 – 17.5 % Nox : 9 – 900 PPM CH ₄ : 180 – 190 PPM C ₃ H ₈ : 8.75 – 875 PPM	INSO 6789 97/24/EC chapter 5, Annex I , clause 2
				Test of carbon monoxide and un burnt hydrocarbons emission at idling speed	CO : 18 – 1750 PPM	INSO 6789 97/24/EC chapter 5, Annex I , clause 2
				Determining Dioxide emission and fuel consumption	CO ₂ : 0.4375 – 17.5 %	INSO 6626
3	Motor vehicle regard to the seats their anchorages and head restraints	-	✓	Dynamic Test	Acc: 25 – 35 g	ISIRI 6503 Chapter III - Annex P 74/408/EEC Annex II, Appendix 1, Paragraph 3 ECE R17
				Requirements for N1 – N2 – N3 category	Visual	
4	Relating to safety belts and restraint system of motor vehicle	-	✓	Dynamic test of the assembly or the restraint system	Acc: 25 – 35 g	ISIRI 779 Clause 5-7-8 77/541/EEC (Paragraph 2.7.8) ECE R16

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5	Road Vehicles – M Category	-	✓	Change Maneuver	V : 80 - 140 Km/h ACC : -10 – 10 m/s ² SWA : -120 – 120 deg Yaw Rate : -40 – 40 deg/s Roll : -10 – 10 deg	ISIRI 6487 Chapter 3 ISO/TR 3888-1 (A.2.2, A.2.3)
				Steady State Circular Driving Behavior – Open Loop Test Procedure	V : UP TO 70 Km/h ACC : UP TO 15 m/s ² SWA : -360 – 360 deg Roll : -15–15 deg	ISIRI 6487 Chapter 2 ISO/4138 (Method 1)
				Lateral Transient Response	V : 75 - 85 Km/h ACC : -15 – 15 m/s ² SWA : -360 – 360 deg Yaw Rate : -50 – 50 deg/s	ISIRI 6487 Chapter 1 ISO/7401 (Clause9 , 11)
6	Road Vehicles – M&N Category	-	✓	Measuring Steering Force in Intact Condition	F : -25 – 25 daN	ISIRI 3917 Clause 8-2-5 70/311/EEC Clause 5.2.5 ECE R79
				Measuring Steering Force In Failure Condition	F : -50 – 50 daN	ISIRI 3917 Clause 8-2-6 70/311/EEC Clause 5.2.6 ECE R79

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No	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
7	Road Vehicles – Braking M&N Category		✓	Type 0 test (Cold Brake)	PEDAL FORCE : UP TO 1500 N ACC : UP TO -1.5 g Distance : 2 – 140 m V:UP TO130 Km/h	ISIRI 6742 Chapter 2 Clause 1.2 71/320/EEC Annex II: Clause 1.2.2,1.2.3 ECE R13
				Type1 test (Hot Brake)		ISIRI 6742 Chapter 2 Clause 1.3.1 71/320/EEC Annex II: Clause 1.3.1 ECE R13
				Parking Braking		ISIRI 6742 Chapter 2 Clause 2.1.3 71/320/EEC Annex II: Clause 2.2.2 ECE R13
				Reaction Time		ISIRI 6742 Chapter 2 Clause 2.3 71/320/EEC Annex II Clause 2.3 ECE R13
				Residual Braking		ISIRI 6742 Chapter 2 Clause 2.1.4 71/320/EEC Annex II Clause 2.1.4 ECE R13
				Adhesion Test In ABS Braking		ISIRI 6742 Chapter 10 Clause 5.2 71/320/EEC Annex X Clause 5.2 ECE R13

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7	Road Vehicles – Braking M&N Category			Locking Test In ABS	PEDAL FORCE : UP TO 1500 N ACC : UP TO -1.5 g Distance : 2 – 140 m V: UP TO 130 km/h	ISIRI 6742 Chapter 10 Clause 5.3.1 71/320/EEC Annex X Clause 5.3.1 ECE R13
				Braking		
				μ Jump Test In ABS Braking		
8	Mass and Dimension – M1 Category	-	✓	Dimensions	UP TO 12000 mm	ISIRI 6500 92/21/EEC Clause 3 EU/1230/2012
				Masses		
9	Road Vehicles M1 Category			Measuring Methods Angles & Dimensions	Up to 10 cm Angle : Up TO 15°	INSO 6622 74/483/EEC ECE R26

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10	4 -Wheel Road Vehicles –M & N			Speedometer equipment - Specifications & test method- specification	Up to 200 km/h	ISIRI 6481 Clause 6 75/443/EEC Annex I: Reverse Gear Annex II (Item 4) ECE R39
11	Road Vehicles – M2 & M3 & N2 & N3 Category	-	✓	Acceleration	ACC : 0.2 – 0.5 m/s ²	INSO 6484 Annex A Clause 1-1-4A 92/24/EEC Clause 1.1.4 ECE R89
				Steady Speed	V : 80 – 120 Km/h	INSO 6484 Annex A Clause 1-1-5A 92/24/EEC Clause 1.1.4 ECE R89
				Measurement Distance Travelled	Up to 20 km	ISIRI 6485 Clause 6-1-4 85/3821/EEC
				Measurement Speed	Up to 200 Km/h	ISIRI 6485 Clause 6-1-5 85/3821/EEC
12	Road vehicles			The sound level of moving vehicle	65 – 90 db	INSO 4243 Chapter 2 Clause 4-1 70/157/EEC (Parts A & B) ECE R51
				The sound level of stationary vehicle	65 – 90 db	INSO 4243 Chapter 2 Clause 4-2 70/157/EEC (Parts A & B) ECE R51

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No	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
13	Road vehicles			Acoustic test	80 – 120 db	ISIRI 6482 Clause 4-2-3 70/388/EEC ECE R28
				Durability test	80 – 120 db	ISIRI 6482 Clause 4-2-2 70/388/EEC ECE R28
				The sound level test of audible warning device when fitted to the vehicle	85 – 100 db	ISIRI 6482 Clause 4-4 70/388/EEC ECE R28
14	Defrosting & Demisting System of Glazed Surface of Motor Vehicles	-	✓	Defrosting System of Glazed Surface	Up to 100%	INSO 4159 Clause 7-1 78/318/EEC Annex 1-4 & 6 – EU/672/2010
				Demisting System of Glazed Surface	Up to 100%	INSO 4159 Clause 7-1 78/318/EEC Annex 1-6 - EU/672/2010
15	Road vehicles M1 , N1 Category			The behavior of the steering mechanism in the event of an impact	Acc : Up to 120 g	ISIRI 4164 Chapter 4 74/297/EEC Annex IV ECE R12

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No	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
16	Road Vehicles- Interior fitting			Force Measuring	FORCE : Up to 1500 N	ISIRI 6772 Clause 5.15 74/60/EEC (Annex I) ECE R21
				Energy Dissipating	40 to 80 g	ISIRI 6772 Chapter 3 74/60/EEC (Annex III) ECE R21
				Determine H point & Seat Back Angle	Up tp 30°	ISIRI 6772 Chapter 4 74/60/EEC (Annex IV) ECE R21
17	Road Vehicles M1 category	-	✓	Determine R point,	-	ISIRI 6506 Clause 8-1 78/932/EEC clause 2.6 ECE R25
				Height Head Restraints	Up to 80 cm	ISIRI 6506 Clause 8-2 78/932/EEC clause 7.2 ECE R25
				Width Head Restraints	Up to 80mm	ISIRI 6506 Clause 8-3 78/932/EEC clause 7.2.4 ECE R25
				Performance of Head Restraints	Up to 50 mdan L= 102 mm	ISIRI 6506 Clause 8-3 78/932/EEC clause 7.4 ECE R25
				Energy Dissipation	Acc : Up to 80 g Up to 30 °	ISIRI 6506 Annex P 78/932/EEC Annex V ECE R25

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No	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
18	Road Vehicle-towing devices			Stability test	Tension : 2000 Kgf Compression : 2000 Kgf	ISIRI 6490 , clause 4 & 5 77/389/EEC, Annex II EU/1005/2010
19	Road vehicles – Devices for indirect vision drivers- Specifications and test methods- M & N category	✓		Fitting	80% of Max Speed	ISIRI 6497 Chapter 3 Clause 3 71/127/EEC Annex 3 ECE R64
				Adjustment	Angle : 55°	ISIRI 6497 Chapter 3 Clause 4 71/127/EEC Annex 3 ECE R64
				Field of Vision	Up to 60m	ISIRI 6497 Chapter 3 Clause 5 71/127/EEC Annex 3 ECE R64
20	Road Vehicles- N category			Measuring Methods for Angels & Dimensions	Up to 10 cm Angle : Up TO 15°	ISIRI 6624 Clause 6-1 92/114/EEC Annex II ECE R61

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21	Forward Field of Vision of Motor Vehicle Drivers			Forward Field of Vision of Motor Vehicle Drivers	---	ISIRI 6670 Chapter 1, Clause 1-4, 2-4, 3-4, 5-4 and Chapter 3 clause 5 77/649/EEC -- ECER125
				Determination of H Point		ISIRI 6670 Chapter 2 Clause 2-3 77/649/EEC -- ECE R125
				Determination of R Point		ISIRI 6670 Chapter 2 Clause 2-4 77/649/EEC -- ECE R125
22	Road vehicles – Liquid fuel tanks and rear under run protection of motor vehicles and their trailers-spec.		✓	Rear under run protection	Up to 100 cm	ISIRI 6480 Chapter 2 70/221/EEC AnnexII – ECE R58
				hydraulic	Up to 0.5 bar	ISIRI 6480 Clause 5-1 70/221/EEC Clause 6.1 – ECE R34
				reversal	Visual	ISIRI 6480 Clause 5-2 70/221/EEC Clause 6.2-- ECE R34
23	Road Vehicles– Door Latches and Hinges			Load Longitudinal (Latch)	Up to 1134 Kpa	ISIRI 6773 Annex A Clause 3-1-1, 3-1-2, 3-1-3 70/387/EEC ECE R11
				Load Transversal (Latch)	Up to 907 Kpa	
				Restraint of Inertia Load	Up to 30 g	
				Load Longitudinal & Transversal (Hinge)	Up to 1134 Kpa	ISIRI 6773 Annex A Clause 3-2 70/387/EEC ECE R11

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24	Road vehicles			Identification of control		ISIRI 6493 Annex A & B 78/316/EEC Annex II & III ECE R121
				Identification of Telltale		
				Identification of indicators		
25	Rear plate on Vehicle M & N category		✓	Shape and dimensions of the space for mounting	---	INSO 6491 Clause 5-1-1 70/222/EEC EU/1003/2010
				Position of the plate in relation to the longitudinal axis		INSO 6491 Clause 5-2-1-1 70/222/EEC EU/1003/2010
				Position of the plate in relation to the longitudinal plane of symmetry		INSO 6491 Clause 5-2-1-2 70/222/EEC EU/1003/2010
				Position of the plate in relation vertical plane		INSO 6491 Clause 5-2-1-3 70/222/EEC EU/1003/2010
				Height of the plate from the ground		INSO 6491 Clause 5-2-1-4 70/222/EEC EU/1003/2010
				Geometrical requirements regarding visibility		INSO 6491 Clause 5-2-1-5 70/222/EEC EU/1003/2010
				Determination of the height of the plate from ground		INSO 6491 Clause 6-1 70/222/EEC EU/1003/2010

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26	Vehicle - Statutory Plates M-N-O category		✓	Manufacture's plate	---	INSO 6489 Annex A part 1 & part 2 , Annex B 76/114/EEC EU/19/2011
				Name of the manufacture		
				EEC type approval number		
				Vehicle identification number		
				Maximum permitted laden for vehicle		
				Maximum permitted laden for towing vehicle		
				Maximum permitted laden for each axel (front & rear)		
				Characters		
27	Road Vehicles- Wheel Guards			Measuring Angles and Dimension	L : Up to 50 Cm Angle : Up TO 15°	ISIRI 6486 Clause 5 78/549/EEC clause 2 EU/1009/2010

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28	Installation of light & light signaling			Number		INSO 6479 Annex C, Clause 6 , Clause7 76/756/EEC Clause 10 ECE R48
				Make		
				Model		
				Type approval mark		
				Color		
				Cut off		
29	Wiper & Washer Systems of M1 category			Test No.1 (at 20° C)	---	ISIRI 6683 Clause 7.2.1 78/318/EEC Clause 6.2.1 EU/1008/2010
				Test No.2 (at -18°C)		ISIRI 6683 Clause 7.2.2 78/318/EEC Clause 6.2.2 EU/1008/2010
				Test No3 : low temperature exposure test		ISIRI 6683 Clause 7.2.3 78/318/EEC Clause 6.2.3 EU/1008/2010
				Test No4: high temperature exposure test		ISIRI 6683 Clause 7.2.4 78/318/EEC Clause 6.2.4 EU/1008/2010
				Test No5: windscreen washer screen		ISIRI 6683 Clause 7.2.5 78/318/EEC Clause 6.2.5 EU/1008/2010

1- **Product Oriented:** Laboratory is accredited to meet all requirements of the product specification standard.

2- **Test Oriented:** Laboratory is accredited for carrying out the tests mentioned in the above table.

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