STANDARDS FOR GRANTING LICENSE TO AUTOMOBILE WORKSHOPS / VEHICLE INSPECTION CENTERS

TO

CONDUCT VEHICLES INSPECTION AND ISSUE FITNESS CERTIFICATES TO PRIVATE MOTOR CARS / JEEPS IN PUNJAB

(Rule 35-A & 35-B of the Punjab Provincial Motor Vehicles Rules, 1969)

1 INTRODUCTION:

Pakistan is facing the challenges of high climate vulnerability, deaths due to road accidents and environmental degradation. Motorized vehicles are increasing rapidly in urban area of the Punjab province. Impacts are congestion, poor air quality and road safety issues. According to the Excise, Taxation & Narcotics Control Department's published data, total registered motor vehicles have surged more than 22.34 million by 30th June 2022. The percentage share of registered vehicle categories is as under:

Sr. No.	Type of Vehicle	No. of Vehicles (Registered since 1965)	As % age of Total Vehicles
1	Motor Cars, Jeeps and Station Wagons	2,078,271	9.30%
2	Motorcycles & Scooters[1]	18,597,038	83.23%
3	Trucks[2]	77,094	0.35%
4	Pickups/ Delivery Vans	291,129	1.30%
5	Buses	94,632	0.42%
6	Taxis	68,994	0.31%
7	Auto Rickshaws	595,802	2.67%
8	Tractors	532,908	2.38%
9	Other Vehicles	8,468	0.04%
	Total	**22,344,336**	

Source: Excise Taxation & Narcotics Control Department Data, 2022

2. The data shows that motor cars are the second highest in the ranking (2.078 million) with a share of 9.30% of the total registered motor vehicles in the province of Punjab since 1965. This growing motor car population is not only emitting hazardous gases and particulate matters but also posing road safety concerns due to non-existence of vehicle testing & fitness system for motor cars.

3. The Environmental Performance Index (EPI) published by the Yale University in 2024 ranked Pakistan at 179 out of 180 countries with a score of 25.5 in air quality

[1] It may be added that Motorcycles and Scooters are not required to undergo annual / periodic vehicles checking and fitness certification under the Provincial Motor Vehicles Ordinance 1965 at present.
[2] The Category of Vehicles from Sr. No. 3 to 7 are already being inspected for Vehicles Fitness through a state of the art system of VICS being run in association with the Swedish Consortium M/s OPUS Inspections Private Limited in Punjab under a Concession Agreement for twenty years.

(https://epi.yale.edu/country/2024/PAK). Punjab is Pakistan's most populated province with growing mobility leading to frequent use of motorized transport by commuters. The major causes of environmental pollution, identified by the FAO Study, include urbanization, industrialization, increase in number of vehicles and motorized trips, combustion of fossil fuels, crop burning and use of fertilizers & pesticides in agriculture sector.

4. In view of the foregoing, Transport & Masstransit Department intends to establish a robust automated system for private motor cars / jeeps inspections and issuance of vehicle fitness certificates to comply with the recently introduced legal provisions inserted as Section 39-A of the Provincial Motor Vehicles Ordinance (PMVO), 1965 **(Annexure-A)**.

5. The report submitted by the World Bank's consultants was thoroughly deliberated in PTAs' authority's meeting and it was decided that a public notice shall be published in the newspapers inviting comments, observations and suggestions on draft framework regarding granting of license to automobile workshops to conduct vehicles inspection and issue fitness certificates to private motor cars / jeeps in Punjab from automobile workshops and other relevant stakeholders. In this context a meeting was held with the relevant stakeholders on 25-07-2024 and all the aspects of the program were discussed in detail. After detailed deliberations, the Punjab Provincial Transport Authority (PTA) decided to implement the Vehicle Inspection and Certification System for Private Motor Cars / Jeeps (P-VICS) in Punjab by granting license to automobile workshops / vehicle inspection centres to conduct inspection of private motor cars / jeeps and issue fitness certificates.

6. In this regard, the Punjab Provincial Transport Authority (PTA) is inviting applications from the interested Automobile Workshops/ Vehicle Inspection Centers who fulfil the Technical Criteria notified by the PTA to apply for granting the license for carrying out inspection and certification of private motorcars / jeeps in Punjab. The PTA Office is now receiving online applications through Licensed Automobile Workshops Management Information System (LAWMIS) (**http://lawmis.punjab.gov.pk/lawmis**) from Wednesday 21st August 2024.

2 FRAMEWORK TO OBTAIN LICENSE FOR ESTABLISHMENT AND OPERATION OF P-VICS STATIONS IN PUNJAB:

2.1 Grant of New License:

1. The Owner/ Authorized Representative of an automobile workshop / vehicle inspection center who intends to obtain a license for vehicles inspection and certification (motor cars / Jeeps) shall apply for the grant of such license on web portal (**http://lawmis.punjab.gov.pk/lawmis**) developed for the implementation of this project by PITB. The complete applications shall be submitted online by the applicant to its respective Regional Transport Authority (RTA) or Provincial Transport Authority (PTA) under Rule 35-A (1) of the PMVR 1969. The concerned RTA & inspection team notified by the PTA of Transport & Masstransit Department after detailed inspection of the facility may recommend or reject an application for grant/ renewal of license, under stipulated conditions, for a period of two (02) years initially.
2. The application fee is **PKR (to be decided)** to be attached with application in form of Demand Draft in the name of the concerned Regional Transport Authority.
3. The license fee for grant of license is **PKR (to be decided)** for a period of two (02) years.
4. Licensed automobile workshops / vehicle inspection centers human resource will be required to obtain necessary trainings regarding inspection equipment handling, calibration, maintenance, operations etc., for smooth functioning. The trainings shall cover the following components:
    a. Use of vehicle inspection equipment
    b. Calibration & maintenance of vehicle inspection equipment
    c. Testing procedures
    d. Inspection test standards and pass/fail criteria
    e. Use of Licensed Automobile Workshop Management Information System (LAWMIS)
    f. Vehicle inspection booking system and compliant redressal system

2.2 For Renewal of License:

1. The application for renewal of licensed automobile workshop / vehicle inspection center shall be submitted at least 30 days before the expiry of the license to the respective RTA or PTA (as the case may be).

2. After evaluating the performance of licensed automobile workshop / vehicle inspection center against the Key Performance Indicators (KPIs) in past years and verification of functionality/ specifications of vehicle inspection equipment, human resource, etc., by the officials of Transport & Masstransit Department and RTA, the license shall be renewed for a period of another two (02) years.
3. Renewal fee for license is **PKR (to be decided)** for a period of two (02) years.

3 REQUIREMENTS FOR ESTABLISHING & OPERATING OF LICENSED AUTOMOBILE WORKSHOP / VEHICLE INSPECTION CENTER:

The applicant must fulfill the following requirements to obtain a license for establishment and conduct inspections and issue fitness certificates to private motor cars / jeeps in Punjab:

a) Registered with the relevant authorities including Punjab Revenue Authority (PRA), Federal Board of Revenue (FBR), etc.
b) Minimum area required to establish a licensed automobile workshop / vehicle inspection center shall not be less than 01 kanal.
    i. The licensed automobile workshop / vehicle inspection center shall include dedicated areas for vehicle inspection lane(s) & pit(s), customer service area / waiting area for document verification/ fee collection, offices, IT room, toilets etc.
c) Procurement & installation of vehicle inspection equipment as notified by PTA.
d) Commissioning and calibration of inspection equipment as per manufacturer's guidelines / standards.
e) Installation of safety equipment at the automobile workshop / vehicle inspection station (fire extinguishers, first aid kits, proper disposal of waste etc.).
f) Quality certification of the facility.
g) Hiring of dedicated and trained vehicle inspectors/ automobile technicians / engineers at the inspection facility. Minimum human resource required at each facility for a single lane vehicle inspection is as follows:
    i. One Station Manager
    ii. At least two (02) Vehicle Inspectors for one (01) inspection lane
    iii. One IT Personal
    iv. One Customer Representative/ Cashier
    v. One Security Guard

(**Annex-B** for details regarding human resources to be deployed at licensed automobile workshop / vehicle inspection center).

h) A centralized Vehicles Inspections & Certification Management Information System is developed (i.e., Licensed Automobile Workshops Management Information System (LAWMIS)) by PITB, and all license holders (licensed automobile workshops / vehicle inspection centers) shall be required to connect to this IT enabled system, and issue Vehicles Fitness Certificates through LAWMIS.

i) Installation and use of LAWMIS for vehicle inspection and uploading of data onto central server on real time basis.

j) Installation of computers, printers, scanners, CCTV cameras etc.

k) Availability of dedicated high-speed internet.

l) ***The authorized licensed automobile workshops / vehicle inspection centers are not allowed to conduct / perform vehicle repair, maintenance, trading, or marketing of vehicle spare parts activities at the same premises for which the application for grant of license for vehicle inspection and issuing fitness certificates to private motorcars & jeeps is submitted. To obtain the license, the existing automobile workshops / vehicle inspection center must set up a separate facility for inspections and certification of private motorcars / jeeps only, at a different location.***

4 STANDARDS FOR VEHICLE INSPECTION STATION / AREA:

An automobile workshop / vehicle inspection station must comply with the following standards in order to obtain a license for inspection and certification of private motorcars / jeeps:

a) The minimum of each inspection zone (excluding office spaces, customer waiting area, parking, etc.) for each inspection lane is as under:
   i. Length: 16 m
   ii. Width: 3.5 m
   iii. Height: 4.5 m

b) A pit, constructed to allow visual inspection of the vehicle components with a minimum length of 8m, minimum width of 0.8m and minimum depth of 1.6m with proper lighting.

c) Unobstructed access to the entrance of the vehicle inspection station.

d) Adequate general lighting. Artificial or natural lighting must be sufficient to allow inspections to be carried out without difficulty in the evening and nights hours also.

e) The inspection line must be under a shelter, possibly enclosed and protected from all-natural factors.

f) Inspection floor constructed of reinforced, levelled, horizontal and impermeable concrete, covered with a water-resistant floor covering oils and greases.

g) Each automobile workshop / vehicle inspection center shall be equipped with an effective exhaust gas ventilation or exhaust extraction system.

h) Electricity and water connections.

i) The automobile workshop / vehicle inspection center must have a well-equipped reception desk, a waiting area, and sufficient seating for all waiting customers.

j) An automobile workshop / vehicle inspection center must have a dedicated guest toilet (for males and females' motorists). Separate toilets and sinks must be made available to staff.

k) A dedicated space for consumables, equipment, spare parts and other maintenance-related materials must be provided inside the facility.

l) An office space as well as changing rooms for staff is required.

m) An office for document archives with secure access control and a secure area for the storage of official forms and documents.

n) Each automobile workshop / vehicle inspection center must have a computer room, a telephone and Internet connection as well as a power supply for computer equipment (server and workstations). It is recommended that the computer room should be in an appropriate and secure office environment.

o) The automobile workshop / vehicle inspection center shall ensure/ provide, through a video system, a record of the activities performed on the inspection lane, which must be kept for at least one year (i.e., expiry of the fitness certificate). These recordings will be made available to the competent authorities as part of the monitoring of technical inspection activities.

p) The necessary video surveillance system must be equipped with at least four (04) surveillance cameras and a DVR (Digital Video Recorder) that allows recording in High Definition.

q) The video surveillance system installed in each facility shall provide the following functionality:

i. Allow all recordings to be viewed on an appropriate screen;
ii. Allow the recording of activities on the technical inspection lane for the maximum operating time;
iii. Enable the storage of recordings, their selective viewing over the entire duration of storage.

5 TESTS PROPOSED FOR VEHICLE INSPECTION AND CERTIFICATION:

The following inspection tests will be conducted by the authorized licensed automobile workshops / vehicle inspection centers to declare a motorcar roadworthy for a defined period of one year as stated in Section 39-A of PMVO, 1965:

i. Alignment Test
ii. Axle Play & Suspension Test
iii. Brake Test
iv. Tire Tread Depth Test
v. Headlights Test
vi. Emissions Test
vii. Noise Test
viii. Seat Belts
ix. Visual Under Cabin Test

The equipment required for inspection of motor cars / jeeps and quantity per lane is as follows:

Sr. No.	Equipment	Quantity
1	Roller Brake Tester	1
2	Suspension Tester	1
3	Alignment Side Slip Tester	1
4	Axle Play Tester	1
5	Fully Automatic Head Light Tester.	1
6	Smoke Opacimeter for vehicles using diesel as a fuel	1
7	Exhaust 5 Gas Analyzer for vehicles using petrol as a fuel	1
8	Sound Level meter	1

9	Device to measure tread depth of tyre	1
10	PIT	1
11	Computers (Minimum Core i5 with 10th Generation or above)	2
12	Printer (black & white)	1
13	Printer (Color)	1
14	Scanners	1
15	CCTV	04
16	Hi-Speed Internet Connection (minimum 10 Mbps connectivity)	1
17	Generator (75 KVA)	1
18	Fire extinguisher	3
19	UPS (1000 watts) with batteries	1

5.1 Inspection Equipment Specifications:

Sr No	Test	Equipment	Specifications
1	**Alignment Test**	**Alignment Tester**: Checks the alignment by measuring lateral deviation from the straight line when the left wheel is fixed on the floor, and the right wheel is on the side-slip tester plate.	**Minimum Specifications**: • Minimum wheel load capacity: ≥ 1200 kg • Minimum reading range: -+1 mm to -+'15 mm • Accuracy: 1m/km • Dimensions: Length ≥ 600 mm & Width ≥ 450 mm • Speed Step: 4 km / h • Non-slip coating • Triggering the measurement: Optical passage detector included.

			• Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator.
2	**Suspension Test**	**Shock Absorber (Suspension) Tester:** The shock absorber (suspension) tester shall utilize the Boge resonance measuring system or EUSMA or EUSMAM: EXPERT system and incorporates a scale for measure the weight of each axle (unless such a scale is integrated into another device of the inspection lane and whose reading would be automatic and integrated into the measurements automatically).	**Minimum Specifications**: • Type: Automatic dual swing-plate type, recessed flush with the floor • Drive: Electric motor for mechanical drives. • Maximum load per axle, 3.0T. • Amplitude of excitation: 6.5 mm +/- 5 mm • Minimum Tracking width: 700 mm to 880 mm • Maximum Tracking width: 2200mm to 2550 mm • Working based on any of the prevailing technologies (BOGIE or EUSAMA) will be acceptable • Minimum Capacity: Minimum capacity 1,200 kg per wheel • Resolution: Minimum resolution: 1% efficiency, and 1 mm or 1 Hz amplitude. • Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator.

			• Ability to store test results for data analysis and reporting.
3	**Brake Test**	**Brake Tester**: The roller-based brake tester applies a controlled load to the vehicle's wheels and measures the braking force generated by the vehicle's brakes allowing an accurate assessment of the braking performance for each individual wheel and axle.	**Minimum Specifications**: The testers shall meet or exceed the following descriptions: • Installation: Fixed, set in the floor, screen and centralized control unit. • Operation: Automatic, timed starts, start and stop manual for each set of rollers. • Type: Electric powered roller trawls. • Set Rollers: ✓ Diameter: greater than or equal to 200mm. ✓ Length: greater than or equal to 700 mm; Coated rollers to increase the coefficient of adhesion. • Minimum Capacity: 1200 kg per wheel. • Minimum Measuring Range: 0 to 4.000 Newton per wheel. • Coefficient of friction (p) min: 0.8 dry; 0.7 in wet. • Test Speed: 2 to 8 km / h • Safety system including automatic stops in case of locking a wheel or slide. • Safety System including rollers fitted with a double contact whereby the same cannot be operated unless both wheels of the vehicle are placed on these rollers.

			• Safety System including emergency button quick disconnect. • Safety System including brake for easy manual or automatic vehicle leaving the rolls of brake testers. • Safety system enabling easy access out of the brake tester rollers (easy drive out). • Accuracy Requirement: Clear indication of measurement range ± 3% of measured value; with misuse of the two indications for the wheels of the same axis as large as ± 2% of measured value. • Scale: The brake tester shall incorporate a scale for the proper measurement of vehicle axle weight, unless integrated into another device of the inspection • Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator. • Ability to store test results for data analysis and reporting.
4	**Tire Tread Depth Test**	**Tire Tread Gauge**: Allows to accurately measure the depth of the tire's tread, which is the grooved pattern on the tire surface	**Minimum Specifications**: • Measurement range: 0-20 mm (0-0.79 inches) • Accuracy: ±0.1 mm (±0.004 inches) • Resolution: 0.1 mm (0.01 inches) • Stainless steel probe, ergonomic design.

		for assessing the condition of the tire and determining if it needs to be replaced.	
5	**Headlights Test**	**<u>Headlight Tester</u>**: The two key measurements taken with the headlight tester include, Intensity Measurement: Luminous intensity of headlights (measured in lux or candela). Beam Pattern Analysis: Assessment of beam pattern to ensure correct alignment and shape.	**<u>Minimum Specifications</u>**: • Measuring the light beam direction via collecting lenses. • Horizontal and Vertical Alignment: Measurement of the deviation of the light beam in horizontal and vertical directions (measured in degrees or milliradians). Light Source and Detection: Light Detection: High precision photodiode or CMOS sensor. Intensity Accuracy: ±10% of reading. Alignment Accuracy: ±0.1 degrees. • Resolution: 0.1 cd for intensity, 0.01 degrees for alignment • Minimum measuring range 0 to 125 KCD or from 0 to 2.69 * 105 lux • Minimum height adjustment from 300 to 1200 mm. • Adjustment, inspection, and testing via software. • Beam Pattern Analysis:

			✓ Capability to capture and display the headlight beam pattern. ✓ Comparison to reference beam pattern templates or standards • Block check adjustment for all types of lights; high, low, and fog lamps - and optical unit adaptable to all types of projectors including ellipsoidal surfaces or more complex. • Measurement Distance: 7.5 meters (25 feet) or more, to simulate real-world headlight testing conditions. • Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator. • Ability to store test results for data analysis and reporting. • Response Time: Measurement typically within a few seconds. • Calibration: Automatic Zero Calibration: Ensures baseline accuracy before each measurement. • Adjustment Range: Height and lateral adjustments to accommodate different vehicle types. • Base: Stable, often with wheels for easy movement and positioning. Display and Output:

			• Display: Digital LCD or LED display showing intensity, alignment, and beam pattern data. • Data Output: USB, RS232, or wireless communication for data logging and analysis.
6	**Emissions Test**	**Emissions Gas Analyzer**: The analyzer measures the concentrations of various exhaust gas components, such as carbon monoxide (CO), carbon dioxide (CO2), hydrocarbons (HC), nitrogen oxides (NOx), and oxygen (O2). • **Diesel Opacity Meter for diesel vehicles**	**Minimum Specifications**: • The system shall integrate a BAR97 certified gasoline emissions analyzer. The analyzer shall be the NDIR (Non-Dispersive Infrared) type used for vehicles with 4-cycle engines using gasoline, liquefied petroleum gas, natural gas or other alternative fuels. • Five-gas emissions analyzer. • HC, CO, CO2, NOx, O2, rpm, speed, and load readings displayed simultaneously. • Standard: Must meet standards of OIML "Class 0 and i or 1" (BAR97+). • Provides automatic zero and span, warm-up, lockout and low flow indicators. • Warm-up time: 30 minutes. • Operating temperature 35 Degrees F to 110 Degrees F. • Calibration: Must allow for calibration using external calibration gas. Includes calibration gas kit. • Zero Calibration: Zero calibration shall occur automatically every time the pump is activated.

			• Repeatability: Repeatability must be within ± 2% of full scale for five successive samples of a gas source. • The gas analyzer shall measure the following gases: ✓ CO: Carbon Monoxide (% volume) ✓ HC: Hydrocarbons (ppm) ✓ CO2: Carbon Dioxide (% volume) ✓ O2: Oxygen (% volume) ✓ NOx: (% volume) • Other: The system shall detect indications of low flow conditions and leaks. • Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator. • Ability to store test results for data analysis and reporting. **Diesel Opacity Meter (For Diesel Vehicles Only):** Minimum Specifications: • Measurement Range: Opacity measurement range of at least 0 to 100%. Capable of accurately detecting low to high levels of smoke opacity. • Light Source: LED or halogen lamp. • Detector: Photodiode or photomultiplier tube.

			• Wavelength: Typically around 550 nm (green light) as this is less sensitive to color variations in the smoke. • Smoke Density (k value): 0 m^{-1} to 9.99 m^{-1}. • Accuracy: Opacity: ±1% of full scale, • Smoke Density: ±0.1 m^{-1}. • Response Time: Typically less than 1 second. • Calibration: Automatic Zero Calibration: Before each measurement cycle. • Display and Output: Display: Digital LCD or LED screen showing opacity and/or smoke density values. • Data Output: RS232, USB, or wireless communication for connection to a PC or data logging system. • Sampling Method: Ability to measure smoke opacity directly from the vehicle's exhaust pipe. • Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator. • Ability to store test results for data analysis and reporting.
7	**Noise Test**	**Noise Tester**: measures the sound pressure levels (SPL)	**Minimum Specifications**: •Minimum measuring range from 50 to 110 dB

		generated by the motor car.	• Frequency weighting filter "A" • "Fast" answer capability. • Comply with type 2IEC 61672, accredited by valid certificate. • Perform calibration by a sound calibrator that meets Class 1 according to IEC 61672 standard. • Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator. • Ability to store test results for data analysis and reporting
8	**Visual Under Cabin Test**	**<u>Inspection Pit</u>:** • The system integrates a vehicle inspection pit to allow the vehicle inspector to safely view the underside of the vehicle. The pit has stairs at one end and a safety ladder at the other to allow for the inspector to exit the pit at either end.	There will be multiple visual inspection tests to be conducted by the Inspector. Few of these tests will be mandatory and remaining will be of an advisory nature. The details of visual inspection tests is given below in the next section of this document.

9	**Axle Play**	**Axle Play Detectors**: Used to check for any excessive play or movement in the vehicle's axle bearings, wheel bearings, and suspension components.	**Minimum Specifications:** • Type: Two mobile metal plates having longitudinal and transverse displacements, equal and opposing. • Measurement Principle: Hydraulic or pneumatic loading mechanism to apply lateral force to the vehicle's wheels. • Measurement Range: Axle play measurement up to at least 10 mm (0.39 inches) per wheel. Capable of detecting even small amounts of play for precise evaluation. • Measurement Accuracy: ±0.1 mm (±0.004 inches) or better to ensure reliable and precise readings. • Load Application: Adjustable lateral load application, typically up to 1,000 N (225 lbf) or more. Ability to apply the load in both left and right directions for each wheel. • Detector Lamp: Halogen, portable, switch / inverter three positions. • Minimum Capacity: 1200 kg per wheel. • Connection to the information management system of inspection lanes, recording the values of the evidence directly, without manual entry by the operator. • Ability to store test results for data analysis and reporting.

5.2 Pass / Fail Criteria for Motor Cars:

5.2.1 Mandator Tests:

Sr No.	Designation	Failure	Mandatory		Fail	
			YES	NO	YES	NO
1	License/ Registration plates	Poor condition or does not match with vehicle documents	X		X	
2	VIN (Vehicle Identification Number) or Chassis Number	Missing, not found or incomplete	X		X	
3	Vehicle Physical Condition	Vehicle condition that does not allow vehicle inspection to be achieved such as properly washed, no oil leakage, non-accidental etc.	X		X	
4	Vehicle Physical Appearance	VIN number, Registration plate, color etc., mismatch with Vehicle Registration Book	X		X	

5.2.2 Equipment Tests:

Inspection Test	Performance Measuring Indicator	Performance Measuring Unit	Range		Result
Alignment Inspection	Lateral Deviation Spacing a wheel from the path of the opposite wheel	m/KM	$-8 \leq X \leq 8$		Pass
			$-10 \leq X \leq -8$	$8 \leq X \leq 10$	Light Defect Pass with Advisory Note
			$X < -10$	$10 < X$	Fail
Shock Absorber Test	Difference of Amplitude of dampener between left and right side of each axle.	%	$51 < X$		Pass
			$41 \leq X \leq 50$		Light Defect Pass with Advisory Note
			$X \leq 40$		Fail
Service Brake Inspection	Imbalance Between wheels on the same axle	%	$0 \leq X \leq 15$		Pass
			$16 \leq X \leq 30$		Light Defect Pass with Advisory Note

			31 ≤ X	Fail
	Efficiency	%	50 ≤ X	Pass
			40 ≤ X ≤ 49	Light Defect Pass with Advisory Note
			0 ≤ X ≤ 39	Fail
Parking Brake Inspection	Efficiency	%	18 ≤ X	Pass
			I14 ≤ X ≤ 17	Light Defect Pass with Advisory Note
			1 ≤ X ≤ 13	Fail
Emergency Brake Inspection	Efficiency	%	18 ≤ X	Pass
			14 ≤ X ≤ 17	Light Defect Pass with Advisory Note
			1 ≤ X ≤ 13	Fail
Tires Condition	Tire Tread	mm	1.6 ≤ X	Pass
			0 ≤ X < 1.6	Critical Defect
High Beam	Intensity	Kcd	20 ≤ X	Pass
			1 ≤ X < 20	Light Defect Pass with Advisory Note
			0	Critical Defect
Low Beam	Intensity	Kcd	11 ≥ X	Pass
			1 < X ≤ 10	Light Defect Pass with Advisory Note
			X < 1	Critical Defect
Emission Petrol	**CO**	% (Vehicle Age is more than 10 Years from	0 ≤ X ≤ 5	Pass
			5 < X	Fail

		date of manufacture)		
		% (Vehicle Age is equal to or less than 10 Years from date of manufacture)	0 ≤ X ≤ 3	Pass
			3< X	Fail
	CO + CO2	% (Vehicle Age is more than 10 Years from date of manufacture)	0 ≤ X ≤ 12	Pass
			12 < X	Fail
		% (Vehicle Age is equal to or less than 10 Years from date of manufacture)	0 ≤ X ≤ 10	Pass
			10 < X	Fail
	HC	% (Vehicle Age is more than 10 Years from date of manufacture)	0 ≤ X ≤ 1.0	Pass
			1.0 < X	Fail
		% (Vehicle Age is equal to or less than 10 Years from date of manufacture)	0 ≤ X ≤ 0.5	Pass
			0.5 < X	Fail
	NOx	% (Vehicle Age is more than 10 Years from date of manufacture)	0 ≤ X ≤ 5.0	Pass
			5.0 < X	Fail
		%	0 ≤ X ≤ 3.5	Pass

		(Vehicle Age is equal to or less than 10 Years from date of manufacture)	3.5 < X	Fail
Diesel Vehicle	**Opacity**	K (m^{-1})5	0 ≤ X ≤ 21	Pass
			21 < X	Fail
		%	0 ≤ X ≤ 60	Pass
			60 < X	Fail
Noise Inspection	Intensity	d B	0 ≤ X ≤ 80	Pass
			81 ≤ X ≤ 90	Light Defect Pass with Advisory Note
			91 ≤ X	Fail

Note: "X" means the test result value obtain from emission analyzer equipment.

5.2.3 Visual Inspection Tests:

Sr No	Category / Type	Description	Mandatory		Fail	
			YES	NO	YES	NO
1	Steering & Suspension Component	Excessive play observed in steering and suspension components that required to be fixed	X		X	
2	Suspension System	Excessive play in joints	X		X	
3	Suspension System	Bar/spring crack or broken	X		X	
4	Suspension	Leaf spring broken or misaligned	X		X	
5	Shock Absorbers	Shock absorber damaged or show signs of leaking or serious malfunction	X		X	
6	Mirrors or Rear-View Devices	Mirror(s) missing or damaged	X		X	
7	Condition and operation of Headlights, Turn Signals, Parking Lights, Brake Lights, Taillights	Defective or missing lamp/light source	X		X	

8	Leakages	Leakage of oil / lubricants from engine, gearbox, fuel system, differential system, clutch, brake etc.	X		X	
9	Axles	Loose, cracked or deformed axle	X		X	
10	Axles	Modification presenting a risk	X		X	
11	Wheel Bearings	Excessive play or noise	X		X	
12	Seatbelt	Driver seat belt is defective or missing	X		X	
13	Rim	Poor assembly of rim elements		X		X
14	Tires	Severely damaged, cut or improperly mounted tire	X		X	
15	Power Steering	Mechanism inoperative: direction affected		X	**Advisory to be issued**	
16	Driver's view	Obstruction in the driver's field of vision affecting the front or side view, outside the wiper sweeping area of the windshield		X	**Advisory to be issued**	
17	Windshield wipers	Defective or missing		X	**Advisory to be issued**	
18	Pressure Horn	In working condition		X	**Advisory to be issued**	

5.3 EQUIPMENT MAINTENANCE MECHANISM:

Equipment maintenance is an important component to ensure reliable and accurate vehicle inspections and certifications. The following schedule will be followed for maintenance of the inspection equipment installed at the Licensed Automobile Workshops / Vehicle Inspection Centers:

Equipment	Operations		Periodicity
Emissions Gas Analyzer	1	Checking Gas Sampling Pipes and Probe	6 months
	2	Checking the status of the filters	
	3	Suction Pump Control	

	4	Checking the Oxygen Sensor 02	
	5	Leak test of the gas suction circuit	
	6	Checking the status of the analyzer communication via the communication protocol	
Diesel Opacity Meter	1	Checking Gas Sampling Pipes and Probe	6 months
	2	Checking the status of the fans	
	3	Checking the Condition of Glass Filters	
	4	Checking the heating resistances of the cell	
	5	Checking the cleanliness of the opacimeter	
Brake tester	1	Verification of bearing tightening	6 months
	2	Adjusting chain tensions	
	3	Checking the rolls and their states	
	4	Verification of the raw values of the sensors	
	5	Setting of logic sensors (presence, speed)	
	6	Checking for leaks on gearboxes	
	7	Checking the connections	
	8	Updating of the acquisition modules to the current version	
	9	Lubrication of mechanical elements.	
Lane computer	1	Keyboard test	6 months
	2	Printer test	

	3	Remote Control Test	
	4	Checking Connections (Power & Control)	
	5	Link test with facility's computer	
	6	Update bench software when needed	
	7	Integration and data transfer to PTA server	
Suspension tester	1	Verification of the raw values of the sensors	6 months
	2	Checking the tightening of the bearings	
	3	Checking the condition and tension of the belts	
	4	Connection check (junction box)	
	5	Update of the Acquisition Modules and software to the current version	
Alignment tester	1	Lubrication of moving rollers	6 months
	2	Checking the Raw Value of the Sensor	
	3	Verification of the mechanical and electronic assembly	
	4	Trigger Sensor Control	
Axle Play Detectors	1	Checking the Condition of Hydraulic Hoses	6 months
	2	Verification of Moving Mechanical Elements	
	3	Lubrication of mechanical elements	
	4	Checking for leaks on the hydraulic system of the plates	
	5	Checking the Main Box	

	6	Checking the oil level on the hydraulic power unit	
	7	Flashlight Test	
	8	Oil change of the pump at the 2nd visit	
	9	Plate Testing	
Headlight Tester	1	General check	6 months
	2	Viewfinder Alignment Check	
	3	Device Horizontality Verification	
	4	Charger Status Check	
	5	Checking the Battery Charge	
	6	Checking the Bluetooth or Wifi communication kit	
	7	Checking the current software version	
	8	Checking the communication status of the headlight control via the communication protocol	
Noise tester	1	Checking the communication status of the headlight control via the communication protocol	6 months
	2	Cleaning	
	3	Update if necessary	

6 VEHICLE INSPECTION FEE AND RE-INSPECTION:

On 16th December 2022, a legal amendment was notified in the Punjab Gazette regarding inclusion of motor cars in fitness regime under Section 39-A of Punjab Motor Vehicle Ordinance, 1965. As per notification, newly manufactured motor cars are

exempted from vehicle inspection and fitness certificate from the date of manufacture as given below:

Sr No.	Vehicle Type	Category	Requirement	Validity
1	Motor Car	Upto 1000 cc	Five years after the date of manufacture	One Year
2		1001 cc to 2000 cc	Six years after the date of manufacture	One Year
3		Above 2000 cc	Seven years after the date of manufacture	One Year

As per Rule 35(9) of Motor Vehicle Rules, 1969, the licensed automobile workshops / vehicle inspection centers will charge the following fee from motorists for vehicle inspection and certification purposes only:

Vehicle Inspection Fee (After every 12 months)		Fee (PKR)*
(i)	Private Motor cars upto 1000 cc	To be decided
(ii)	Private Motor cars 1001 cc to 2000 cc	To be decided
(iii)	Private Motor cars above 2000 cc	To be decided

***Without GST**.

The **first re-inspection** test shall be **free of cost** within 15 days from standard inspection, whereas the **second re-inspection** shall be conducted by charging **25%** of the standard fee within 15 days of first re-inspection and **third re-inspection** shall be **50%** of the standard inspection fee if motorists appear for vehicle inspection within 15 days of second re-inspection. After the third re-inspection, if vehicle is not able to clear fitness inspection test, the motor car/ jeep shall be declared **off-road** and the motorists shall be required to appear for the standard vehicle inspection

7 MONITORING MECHANISM:

Robust mechanism for supervision and performance evaluation of the licensed automobile workshops / vehicle inspection centers shall be done by the respective RTAs to ensure quality in vehicle inspections and value for money for the motorists.

The framework will include regular & surprise visits of licensed automobile workshops / vehicle inspection centers, feedback from the motorists, etc. The following will be considered while supervising the performance of licensed automobile workshops / vehicle inspection centers:

- Ensure that all licensed automobile workshops / vehicle inspection centers operate under the same conditions, and that they comply with all legal and organizational requirements.
- Ensure that all vehicles pass their vehicle inspection and obtain fitness certificate at all licensed automobile workshops / vehicle inspection centers in exactly the same conditions and at the same level of quality.
- Continually evaluate the ability of licensed automobile workshops / vehicle inspection centers to evolve towards higher standards.
- Analyze the evolution of the fleet in terms of rejection levels in relation to the defined thresholds and deduce the new thresholds to be implemented in each new stage.

In this context, it should be mentioned that supervision is a continuous activity over time and is carried out through several components:

- Facility audits: Planned, unannounced audits or following complaints or findings of anomalies in data or following accidents.
- Analysis of collected data: The information system allows the Authority to collect detailed data from technical inspections in real time. The analysis of its data allows the Authority to supervise activities by analyzing the data and calculating KPI's to pilot and manage activities and also make the most appropriate operational and strategic decisions. Whenever data appears abnormal, an alert should be reported and an audit at the facility concerned could be triggered.

Also, audits are carried out with the aim of verifying compliance with regulations or to assess the development and evolution potential of each licensed automobile workshop / vehicle inspection center. A dedicated help line shall be established by the PTA for motorists to register complaints/ grievances with regards to their vehicle inspection and fitness certification.

8 KEY PERFORMANCE INDICTORS (KPIs) FOR LICENSED AUTOMOBILE WORKSHOPS / VEHICLE INSPECTION CENTERS:

The performance and quality of each licensed automobile workshops / vehicle inspection centers shall be monitored and maintained through implementation of Key Performance Indicators (KPIs). The KPIs ensure quality inspections, control over bribes and fraudulent inspections, proper maintenance and calibrations of the equipment, connectivity of vehicle test results with the LAWMIS, deployment of proper trained staff to conduct vehicle inspection, state of cleanliness and compliance of the equipment with the notified specifications of the PTA. The licensed automobile workshops / vehicle inspection centers shall be fined by the Authority upon violation of KPIs and continuous violation shall authorize the Authority to suspend the operations of that Particular licensed automobile workshop / vehicle inspection center.

In case of any queries / questions please contact:

Secretary
Punjab Provincial Transport Authority
Transport & Masstransit Department, Government of Punjab
Transport House 11-A Egerton Road,
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Tel: +92-42-99200359, Email: secpunjabpta@gmail.com

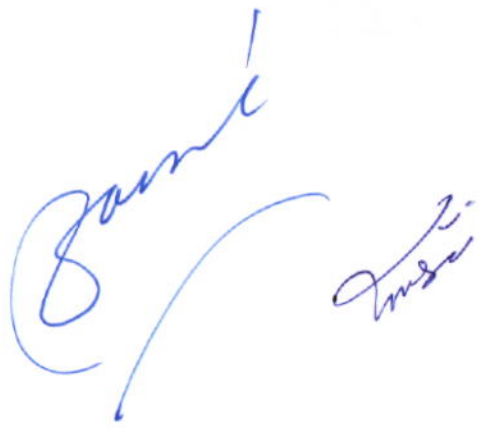
KEY PERFORMANCE INDICATORS (KPIs) FOR LICENSED AUTOMOBILE WORKSHOPS / VEHICLE INSPECTION CENTERS

Sr No.	Description	1st Violation	2nd Violation	3rd Violation
1	Furnish, give, sell or attached a valid certificate of fitness without complete inspection of private motor car/jeep	Rs. 10,000	Rs. 20,000	Suspension of license for at least period of two months
2	Fraudulent recording of information on any and all inspection records to include certificate of inspection, log sheet and/or relevant form.	Rs. 10,000	Rs. 20,000	Suspension of license for at least period of two months
3	Taking bribes / using corrupt practices to issue valid fitness certificate	Rs. 20,000	Rs. 50,000	Suspension of license for at least period of three months
4	Performing or diagnosing unnecessary repairs for the purpose of inspection.	Rs. 20,000	Rs. 40,000	Suspension of license for at least period of three months
5	Inspecting a vehicle at an unlicensed location.	Rs. 20,000	Rs. 40,000	Suspension of license for at least period of two months
6	Inspection by uncertified, unauthorized or suspended mechanic.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
7	Inspecting a vehicle with missing registration certificate or registration plate or validation sticker(s) or unreadable registration plate.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
8	Failure to verify VIN and registration information with vehicle or inspection of a vehicle with unreadable or missing VIN plate.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
9	Faulty or incomplete inspection, inspecting a vehicle with inoperable, illegal, faulty calibrated or defective equipment.	Rs. 10,000	Rs. 20,000	Suspension of license for at least period of two months

10	Failure to comply with any of the provisions as notified by the PTA	Rs. 10,000	Rs. 20,000	Suspension of license for at least period of two months
11	Failure to produce inspection records or related work orders to the PTA, Transport & Masstransit Department, Transport Planning Unit, or agent on request.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
12	Failure to maintain inspection log, or improper, inaccurate or incomplete recording of information on inspection records.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
13	Failure to assign correct expiration/date month on certificate of inspection.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
14	Failure to conspicuously display inspection facility license and inspection fee rate as notified by the PTA.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
15	Failure to notify the Department immediately in writing of changes in ownership, name or location of authorized license automobile workshop / vehicle inspection center.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
16	Failure to immediately notify the PTA and Transport & Masstransit Department upon temporary closure of the authorized license automobile workshop / vehicle inspection center.	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
17	Equipment Specifications not complying with the required standards due to replacement of equipment on technical grounds	Immediate Suspension of license for a period till equipment is replaced and brought within specifications		
18	Testing Standards not complying with the required standards	Rs. 20,000	Rs. 40,000	Suspension of license for at least period of three months
19	Equipment calibrations not performed as per schedule	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks

20	Authorized license automobile workshop / vehicle inspection center cleanliness; Poorly maintained equipment and infrastructure	Rs 5,000	Rs 10,000	Suspension of license for at least period of 2 weeks
21	Malfunctioned in IT System	Rs. 10,000	Rs. 20,000	Suspension of license for at least period of two months
22	Intentionally withholding the results from being uploaded to LAWMIS	Rs. 20,000	Rs. 40,000	Suspension of license for at least period of three months
23	Hiring of ineligible or nonqualified or untrained / unskilled staff license automobile workshop / vehicle inspection center	Rs. 10,000	Rs. 20,000	Suspension of license for at least period of two months
24	Overcharging of Vehicle Inspection Fee	Rs. 10,000	Rs. 20,000	Suspension of license for 03 weeks
25	Waiting Area, toilets and other facilities are not properly maintained	Rs. 5,000	Rs. 10,000	Suspension of license for 01 week

Note: The authority may exercise the power to cancel the license of licensed automobile workshop in case of multiple / continuous violations of above mentioned KPIs.



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PROVINCIAL ASSEMBLY OF THE PUNJAB

NOTIFICATION

December 16, 2022

No.PAP/Legis-2(141)/2021/75. The Provincial Motor Vehicles (Amendment) Bill 2021, having been passed by the Provincial Assembly of the Punjab on the 5th day of December 2022, and assented to by the Governor of the Punjab on the 14th day of December 2022, is hereby published as an Act of the Provincial Assembly of the Punjab.

THE PROVINCIAL MOTOR VEHICLES (AMENDMENT) ACT 2022

ACT XLI OF 2022

[First published, after having received the assent of the Governor of the Punjab, in the Gazette of the Punjab (Extraordinary) dated December 16, 2022.]

An
Act

to amend the Provincial Motor Vehicles Ordinance, 1965.

It is expedient to amend the Provincial Motor Vehicles Ordinance, 1965 for the purposes hereinafter appearing;

Be it enacted by Provincial Assembly of the Punjab as follows:

1. **Short title and commencement.**- (1) This Act may be cited as the Provincial Motor Vehicles (Amendment) Act 2022.

(2) It shall come into force at once.

2. **Insertion of section 39-A of Ordinance XIX of 1965.**- In the Provincial Motor Vehicles Ordinance, 1965 (XIX of 1965), for brevity referred to as 'the Ordinance', after section 39, the following section 39-A shall be inserted:

"**39-A. Certificate of fitness for motor cars.**- (1) A motor car included in Fifteenth Schedule shall carry a certificate of fitness in Form I as set forth in the First Schedule, issued by the prescribed authority.

(2) Subject to the provisions of subsection (3), a certificate of fitness shall be issued after the period mentioned in Fifteen Schedule.

(3) The prescribed authority may, for reasons to be recorded in writing, cancel a certificate of fitness at any time, if satisfied that the vehicle to which it relates no longer complies with all the requirements of this Ordinance and the rules made thereunder."

3. **Amendment of Form I of First Schedule of Ordinance XIX of 1965.**- In the Ordinance, in Form I:

(a) for the expression "[see sections 39(1) and 40(2)]", the expression "[see sections 39(1), 39-A(1), and 40(2)]" shall be substituted; and

(b) for the expression "(APPLICABLE IN THE CASE OF TRANSPORT VEHICLES ONLY)", the expression "(APPLICABLE IN THE CASE OF TRANSPORT VEHICLES, MOTOR CARS, CVH AND PVH)" shall be substituted.

4. **Addition of Fifteenth Schedule of Ordinance XIX of 1965.**- In the Ordinance, after the Fourteenth Schedule, the following Fifteenth Schedule shall be added:

FIFTEENTH SCHEDULE
(see section 39-A)
FITNESS CERTIFICATE FOR MOTOR CARS

Sr. No.	Vehicle Type	Category	Requirement	Validity
1.	Motor Car	Upto 1000 CC	Five years after the date of manufacture	One Year
		1001 CC to 2000 CC	Six years after the date of manufacture	One Year
		Above 2000 CC	Seven years after the date of manufacture	One Year

Inayat Ullah Lak
Secretary

Annex-B

Human Resource Details

(To obtain a license and operate a motor vehicle inspection station for motor cars, the following personnel must be employed)

Sr No	Human Resource / Designation	Minimum Quantity	Qualification
1	Inspection Station Manager	1	At least 12th Standard Pass
2	Vehicle Inspector	2 (Per One Inspection Lane)	Matric with Diploma in Automotive mechanics, or Automotive engineering
3	IT Personal	1	Intermediate Pass with diploma / certificate in Computer Hardware course
4	Customer Service Representative & Fee Collector	1	Matric Pass
5	Security Guard	1	Preferrable retired army or police man
6	Janitorial	1	Literate