

Government of Tamil Nadu

State Transport Authority

a) Motor Cars with seating capacity of and upto 6 persons (including driver) and GVW not exceeding 2500 Kg.

Vehicles with	Limit Values for Type Approval (TA) as well as COP (g/km)				
	CO	HC	NOx	HC + NOx	PM
Gasoline	2.3	0.2	0.15	---	---
Diesel Engine	0.64	---	0.5	0.56	0.05

b) Four Wheeler Passenger Vehicles with GVW equal to or less than 3500 Kg. and designed to carry more than 6 persons (including driver) or maximum mass of which

c) Four Wheeled Vehicles (other than Passenger Vehicles) with GVW equal to or less than 3500 Kg. shall conform to the following norms.

Vehicles with		Limit Values for Type Approval (TA) as well as COP (g/km)								
		CO		HC		NOx		HC + NOx		PM
Class	Ref. mass (rw) kg.	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Gasoline	Diesel	Diesel
I	rw ≤ 1305	2.3	0.64	0.2	---	0.15	0.5	---	0.56	0.05
II	rw 1305 -1760	4.17	0.8	0.25	---	0.18	0.65	---	0.72	0.07
III	rw ≥ 1760	5.22	0.95	0.29	---	0.21	0.78	---	0.86	0.1

d) Diesel Vehicles with GVW exceeding 3500 Kg. shall conform to the following norms.

Limit Values for Type Approval (TA) as well as COP (g/km)				
Engine Steady State Cycle (ESC) test			Engine Load Response (ELR) test	
CO (g/kWh)	HC (g/kWh)	NOx (g/kWh)	PM (g/kWh)	Smoke (m ⁻¹) #
2.1	0.66	5	0.10 / 0.13 *	0.8

2) As per Notification dated 10th February 2004, on and after 1st October 2004, every motor vehicle operating on Petrol / CNG / LPG shall comply with the Idling Emission Standards

S. No.	Vehicle Type	CO %	equivalent) ppm
1	2 & 3 wheelers (2 / 4 stroke) (vehicles manufactured before 31 st Mar 2000)	4.5	9000
2	2 & 3 wheelers (2 stroke)		

	(vehicles manufactured after 31 st Mar 2000)	3.5	6000
3	2 & 3 wheelers (4 stroke) (vehicles manufactured after 31 st Mar 2000)	3.5	4500
4	Bharat Stage II Compliant 4	0.5	750
5	4 Wheelers other than Bharat Stage II Compliant.	3	1500

Note :

* The Idling Emission Standards for vehicles when operating on CNG shall contain NMHC in place of HC and shall be estimated by the following formula :

NMHC = 0.3 x HC where HC = total HC measured as n - hexane equivalent.

Similarly Idling Emission Standards for vehicles when operating on LPG shall contain Reactive Hydro Carbon (RHC) in place of HC and shall be estimated by the following

RHC = 0.5 x HC where HC = total HC measured as n - hexane equivalent.

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