

PROBLEM



FEATURES/FUNCTIONALITIES

Users: Motor Vehicle Inspectors (RTO)



Secure Login



User (Motor Vehicle Inspector) specific information



Basic Information of the vehicle viz. Registration Number, Color, Chassis Number, Engine Number, Body type, etc. along with vehicle age



Vehicle age validity, vehicle transportation type (transport/non-transport), & vehicle fit up to date should be calculated automatically, based on vehicle fitness check date.



Fare Meter Information (if applicable, for Transport vehicles only)

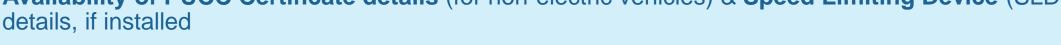








PROBLEM



Vehicle Parts to be checked during Fitness Test: Breaks, Tyre condition, Left/Right/Front/Back indicators, Wipers, Head lamps/Tail Lamps, Windshield/Front Glass, Body Finishing, Road worthiness, Emission, Speedo Meter, Steering, Airbags, etc. (refer MoRTH Rule-62 attached in next slides)

Provision to upload image/video of vehicle, with usage of lossless compression technique before uploading on cloud storage

Proximity Sensor, so that Fitness is carried out (clicking photo) by Motor Vehicle Inspector, within a specified distance from the RTO/Check Post

Explore usage of Artificial Intelligence, Data Analytics like technologies while inspecting tire condition/ head lamps/tail lamps/broken windshield/ side mirrors/ front wipers, to predict the vehicle fitness









SAMPLE 1- Vehicle Fuel Master Table

Fuel ID (Integer)	Fuel Description (String)
1	Electric
2	Petrol

SAMPLE 2- Vehicle Class Master Table

Vehicle Class ID (Integer)	Vehicle Class Description (String)
1	Goods Carrier
2	Three Wheeler

SAMPLE 3- State Master Table

State Code (String)	State Name (String)
DL	Delhi
HR	Haryana





Tables with Schema & Data

*To open the inserted File: Double Click on the icon, in normal mode of the presentation

Entry of Application No./Registration No.



Fitness Inspection Screen with various parameters





DOCUMENTATION, FORMATS (RULES)

MOLATIC

KEY DOCUMENTATION



System Requirement Specifications (SRS)



Functional Requirement Specifications (FRS)



Business Requirements Document (BRD)



User Manual

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VEHICLE FITNESS SPECIFIC RULES (RULE-62)*



Page 1

DITES

THE CENTRAL MOTOR VEHICLES RULES, 1989 49

61. Termination of hire-purchase agreements, etc.

(1) An application for making an entry of termination of agreement of hire-purchase, lease or hypothecation referred to in sub-section (3) of section 51 shall be made in Form 35 duly signed by the registered owner of the vehicle and the financier, and shall be accompanied by the certificate of registration and the appropriate fee as specified in rule 81.

(2) The application for the issue of a fresh certificate of registration under sub-section (5) of section 51 shall be made in Form 36 and shall be accompanied by a fee as specified in rule 81.

(3) Where the registered owner has refused to deliver the certificate of registration to the financier or has absconded then the registering authority shall issue a notice to the registered owner of the vehicle in Form 37.

Certificate of Fitness

62. Validity of certificate of fitness

(1) A certificate of fitness in respect of a transport vehicle granted under section 56 shall be in Form 38 and such certificate when granted or renewed shall be valid for the period as indicated below:

(a)	New transport vehicle	Two years
¹ [(b)	renewal of certificate of fitness in respect of transport vehicles	Two years for vehicles up to eight years old and one year for vehicles older than eight years.]
² [(ba)	Renewal of certificate of fitness in respect of E-rickshaw and E-cart	Three years]
³ [(c)	Renewal of certificate of fitness in respect of vehicles covered under rule 82 of these rules	One year
(d)	Fresh registration of imported vehicles	Same period as in the case of vehicles manufactured in India having regard to the date of manufacture:]

⁴[PROVIDED that the renewal of fitness certificate shall be made only ⁵[after an Inspecting Officer] or authorised testing stations as referred to in sub-section (1) of section 56 of the Act] has carried the tests specified in the Table given below, namely:—

Substituted vide GSR 1081(E), dt. 2-11-2018, w.e.f. 2-11-2018 Prior to substitution, clause (b) read as under: "(b) Renewal of certificate of fitness in respect of vehicles mentioned in (a) above One year"

Inserted vide GSR 709(E), dt. 8-10-2014, w.e.f. 8-10-2014.
 Omitted vide GSR 1081(E), dt. 2-11-2018, w.e.f. 2-11-2018

RULE 62

VEHICLE FITNESS SPECIFIC RULES (RULE-62)

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50 THE CENTRAL MOTOR VEHICLES RULES, 19189

RULE 62

THE CENTRAL MOTOR VEHICLES RULES, 1989 51

				TABLE	E		
SI. No.	Item	Check Fit- ment	Check make/type, rating etc. as per original equipment re- commen- dations	Check Conditions	Check Function- ing	Test	Remarks
1	2	3	4	5	6	7	8
(1)	Spark Plug/ Suppres- sor cap/ High Tension cable	Yes	Yes	Yes	No	No	Walldity of critical and the critical an
(2)	Head Lamp Beams	Yes	No	Yes	Yes	Check	(a) Beam focus as per Annexure VII; (b) in case of authorised testing station using headlight tester, testing procedure and requirement shall be as per AIS-128:2014
(3)	Other Lights	Yes	No	Yes	Yes	No	Also ensure that unauthorised lights are not fitted
(4)	Reflectors	Yes	No	Yes	No	No	Ensure colour of reflectors and reflective tapes are as per rule 104
(5)	Bulbs	Yes	Yes	Yes	No	No	Ensure that head light bulbs wattage, especially halogen, is not higher than those indicated in IS 1606-1993 and also ensure that halogen bulbs with P45t caps are not used in all vehicles
(6)	Rear View Mirror	Yes	No	Yes	No	No	Personal Landson

(7)	Safety Glass	Yes	Yes	Yes	No	No	Laminated windscreen glass is used for vehicles manufactured from April, 1996 onwards
(8)	Horn	Yes	No	Yes	Yes	No	No more
(9)	Silencer	Yes	No	Yes	Yes	No	Ensure no leakage
(10)	Dash Board equip- ment	Yes	No	Yes	Yes	No	Jier frend Jier frend Jersenstern In stortmen
(11)	Wind shield wiper	Yes	No	Yes	Yes	No	principality, outpair
(12)	Exhaust emission	No	No	No	No	Yes	Pollution Under Control Certificate
(13)	Braking System	Yes	No	Yes	Yes	Yes	(a) As per rule 96(8); (b) in case of authorised testing
				net.	brake tester, te procedure, and requirements	station using roller brake tester, testing procedure, and requirements shall be as per AIS-128:2014	
(14)	Speedo- meter	Yes	No	Yes	Yes	No	As per rule 117
(15)	Steering gear	Yes	No	Yes	Yes	Check free play	Check freeplay as per rule 98 for vehicles with steering wheel.]
¹ [(16)	Rear Under run Protecting Device For N2, N3, T3 and T4	Yes	No	Yes	No	No	As per rule 124(1A)
(17)	Lateral Side Protection Device For N2, N3, T3 and T4	Yes	No	Yes	No	No	As per rule 124(1A)]



VEHICLE FITNESS SPECIFIC RULES (RULE-62)

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52 THE CENTRAL MOTOR VEHICLES RULES, 19189

FORMATS (RULES)

RULE 62

1[(18)	Fastag	Yes	Yes	Yes	No	No	To be affixed on the front wind screen]
² [19.	Priority Seats, Signs,	Yes	No	Yes	Yes	No	Ensure that the provisions of sub-rules (1) and (7)
	securing of		SOT		00.0	1	of rule 125C of the
	crutches/						Central Motor
	walker, hand rail/				1151	-	Vehicles Rules, 1989 are complied with]
	stanchions, controls at						The symposium of the same of t
	priority seats for differently abled		-	417			Active Victoria
	passengers and			1005		1-05	named (CI)
	passengers with reduced mobility.			to the same		-	Comment of the
³ [20.	Wheel chair entry/ housing/ locking	Yes	No	Yes	Yes	No	Ensure that the provisions of sub-rules (1) and (7) of rule 125C of the Central Motor
	arrange- ment for wheel			1115	- 667		Vehicles Rules, 1989 are complied with]
	chair for differently abled	10 march 10 march					The second second
	passengers and passengers with reduced nobility	100					3000

⁴[PROVIDED FURTHER that in case of E-rickshaw and E-cart, the renewal of fitness certificate shall be made only after carrying out tests specified in the Table given below:—

RULE 62

THE CENTRAL MOTOR VEHICLES RULES, 1989 53

1TABLE

				LATERAL			
SL. No.	Items	Check Fitment	Check make or Type rating, etc. function as per original equipment recommen- dation	Check conditions	Check functioning	Test	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Maxi- mum speed	No	No	No	No	Yes	The vehicle shall be driven in unladen condition (with full charge and at full accelerator position) on straight or flat road and when the vehicle attains full speed, the maximum speed shall be calculated by measuring time taken to travel fixed distance (say 50 metres)]
2,	Reflectors	Yes	No	Yes	No	No	Ensure Colour of the reflectors and reflective tapes are as per rule 104]

²[PROVIDED ALSO that if the tests specified in the Table under the first proviso are conducted by an Inspecting Officer or a authorised testing station in a State/Union Territory other than the State/Union Territory where the vehicle is registered, the Inspecting Officer who conducted the tests shall, on the same day or on the following working day, upload his inspection report in Form 38A at the portal http://parivahan.goo.in/vahan and also send the inspection report signed under his hand and seal to the registering authority by speed post for issue of certificate of fitness by the registering authority within fifteen days from the date of the inspection report, if the vehicle is found by the Inspecting Officer to be in compliance with the provisions of the Act and rules and a copy shall be given to the driver of the vehicle:

PROVIDED ALSO that the next fitness certificate is obtained from the inspecting officer or an authorised testing station in the State/Union Territory of the registering authority where the vehicle is registered.]

Explanation: "Inspecting Officer" means an officer ³[appointed by a State Government] under section 213 of the Act:]

FITNESS FORM (FORM 38)*

FORMATS (FORMS)



FORM 38

FORM 38

[Refer Rule 62(1)] CERTIFICATE OF FITNESS

(Applicable in the case of transport vehicles only)

Vehicle Nois ce	rtified as complying with the provisions of the Motor
Vehicles Act, 1988, and the rules m	hade thereunder. The certificate will expire on
Date	Signature and designation of inspecting authority or holder of the letter of authority of the authorised testing station.

The certificate of fitness is hereby renewed:

From	to	20
From	to	20
From	to	20

Signature of inspecting authority or the holder of the letter of authority of the authorised testing station

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SAMPLE FITNESS CERTIFICATE*

FORMATS (REPORTS)



FITNESS CERTIFICATE

TRANSPORT DEPARTMENT, GOVT. OF NCT OF DELHI

State Transport Department
ZONAL OFFICE, NORTH ZONE, MALL ROAD
FORM 38
[See Rule 62(1)]

CERTIFICATE OF FITNESS

(Applicable in the case of transport vehicles only)



Vehicle No: DL1ERB1397 (Three Wheeler (Passenger)) is certified as complying with the provisions of the Motor vehicles Act, 1988 and the rules made there under.

Certificate will expire on : 21-Jan-2022 Next Inspection Due Date : 23-Nov-2021

Inspection Fee Receipt No : DL11701I00000101 Application No : DL18022800088007

Receipt Date : 23-Sep-2015

Chassis No : WBACR6705KLP60287

Engine No : 0181Y235

Seating Capacity : 5 (Including Driver)
Type of Body : STATION WAGON

Registration No : DL1ERB1397 Manufacturing Year : 2019

Category of Vehicle : 3WT Inspected on : 22-Jan-2020

Remark: DSF

Inspected by : DL TESTING Inspected by : PAWAN KR

Printed on: 27-Jul-2020 12:45:47 Signature of Inspecting Authority

ZONAL OFFICE, NORTH ZONE, MALL ROAD

Incorporation of advanced/innovative features and functionalities, to the extent possible

Solution to be high on user friendliness

Cost effective

Secure & robust solution

Easily scalable to be cater to increase/decrease in number of users, load, etc.



