

भारत सरकार, रक्षा मंत्रालय (डीजीक्यूए),
गुणता आश्वासन नियंत्रणालय (वाहन),
पोस्ट बॉक्स नं. - 2,
औरंगाबाद रोड,
अहमदनगर - 414 003.
दूरभाष: 0241-2326740 / 2323848
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Govt. of India, Ministry of Defence (DGQA),
Controllerate of Quality Assurance (Vehicles),
Post Box No. - 2,
Aurangabad Road,
Ahmednagar-414 003.
Phone: 0241-2326740 / 2323848
Fax: 0241-2323826
Web: www.dgqadefence.gov.in

No. CQAV/LAB/NABL/QAV-35

10 अक्टूबर 2017

To,
The Director
HQ DGQA / SDCC
Room No. 2E, 'G' Block,
Nirman Bhavan PO,
NEW DELHI: 110 011

Email: cdb-dgqa@nic.in

**FORWARDING OF LATEST NABL CERTIFICATE TC-7821 AND SCOPE
TO UPLOAD IT ON DGQA WEBSITE**

Ref: NABL letter No. NABL/T-1732/M dtd 27 Sep 2018 (copy enclosed).

2. NABL Accreditation of CQA (V) Laboratory has been renewed by NABL vide letter under reference which is valid up to 17 Sep 2020.
3. Soft copy of NABL Certificate No. TC-7821 with Scope of Accreditation is forwarded herewith to upload the same on DGQA website.

Encls: As above

(एस सुभाषचंद्र / S Subhashachandra)
प्रधान वै. अधिकारी / PScO
उप नियंत्रक (प्रयोगशाला) / Dy Controller (Lab)
कृते नियंत्रक / For Controller

Copy to,

The Addl DGQA (V)
DGQA/Veh-2, Govt of India,
Min of Defence (DGQA),
NEW DELHI: 110 011

For kind information, please.



**National Accreditation Board for
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



NABL/T/1732/M

27.09.2018

Mr. R.L.Jasud
Technical Manager
CQA (V) Laboratory
Controllerate of quality assurance (vehicle)
Min. of Defence (DGQA), Aurangabad Road,
Ahmednagar – 414 003, Maharashtra
Tel: 0241-2327450/5885 Fax: 0241-2323826
e-mail: cqav-dgqa@gov.in

Subject: Issue of Accreditation Certificate

Dear Sir,

NABL is pleased to issue you the accreditation certificate as per ISO/IEC 17025:2005 for the accredited facilities. Kindly acknowledge the receipt of the same.

You are required to follow NABL-133 for using NABL Symbol. You must fulfill all the terms and conditions as mentioned in NABL 131.

Yours Sincerely


Prachi Kukreti
Deputy Director
prachi@nabl.qcin.org

TC-7821

Enclosures: Certificate No. TC-7871 - Mechanical testing and Annexure (5 Pages)



**National Accreditation Board for
Testing and Calibration Laboratories**
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CERTIFICATE OF ACCREDITATION
CONTROLLERATE OF QUALITY ASSURANCE
(VEHICLES) LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at
Ministry of Defence (DGQA), Aurangabad Road,
Ahmednagar, Maharashtra
in the field of
TESTING

Certificate Number TC-7821 (In lieu of T-2283)

Issue Date 18/09/2018

Valid Until 17/09/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



69076970100030001913

Anil Relia
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

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SCOPE OF ACCREDITATION

Laboratory Controllerate of Quality Assurance (Vehicles) Laboratory, Ministry of Defence (DGQA), Aurangabad Road, Ahmednagar, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7821 (in lieu of T-2283) **Page 1 of 5**

Validity 18.09.2018 to 17.09.2020 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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MECHANICAL TESTING

I. MECHANICAL PROPERTIES OF METALS				
1.	Metal (Ferrous & Non Ferrous)	Hardness Rockwell Scale 'A' 'B' 'C'	IS 1586 (Part 1)	20 HRA to 88 HRA 20 HRB to 100 HRB 20 HRC to 70 HRC
II. PERFORMANCE/DURABILITY/SAFETY TEST				
1.	Hydraulic Jack	Testing of Hydraulic Jack	IS 4552 (Part 2)	Max 736 kN
		Visual	Clause 7.1.1	Qualitative
		Dimensional check (i) Max Closed Height (ii) Min total lift (iii) Min Extended Height (iv) Saddle Width / Dia	Clause 7.1.2	Upto 300 mm
		No load	Clause 7.1.3	Qualitative
		Overload test before Performance	Clause 7.1.4	Qualitative
		Performance	Clause 7.1.5	Qualitative
		Safety Valve opening	Clause 7.1.6	Qualitative
		Overload test after Performance	Clause 7.1.7	Qualitative
		Load sustaining	Clause 7.1.8	Upto 300 mm
		Operating torque	Clause 7.1.9	Upto 30 kg
2.	Portable Jack	Visual	IS 4552 (Part 1) Clause 7.1.1	Qualitative
		Dimensional Check	Clause 7.1.2	Qualitative

Prachi Kukreti
Convenor

Mallika Gope
Program Manager



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		No Load	Clause 7.1.3	Qualitative
		Over Load	Clause 7.1.4 & 7.1.6	Upto 39.24 kN
		Performance	Clause 7.1.5	Upto 39.24 kN
		Operating Torque	Clause 7.1.7	Upto 500kgf.cm
III.	RUBBER & RUBBER PRODUCTS			
1.	Vulcanized Rubber Products	Tensile strength	IS 3400 (Part 1)	Upto 25 MPa
		Elongation at break		Upto 800 %
		Accelerated Ageing	IS 3400 (Part 4)	
		Change in Hardness		20 Shore A to 90 Shore A
		Change in Tensile Strength & % Elongation		5 % to 90 %
		Permeability of Gases- Constant Pressure Method	IS 3400 (Part 21)	Upto $10 \times 10^{-11} \text{ m}^3/\text{Pa.S}$
		Splice Flex Strength for Tubes	IND/VEH/2081/2011/b Issue No. 02, Issue Date 27/01/2012	Qualitative
		Shore 'A' Hardness	IS 3400 (Part 23)	20 Shore 'A' to 90 Shore 'A'
		Tension Set (%)	IS 3400 (Part 13)	5 % to 95 %
2.	Pneumatic Tube	Pull Out Strength of Rubber Based Valves	IS 9081 Clause 6.4	5 kg to 250 kg
3.	Vulcanized Rubber Products	Ash Content	IS 3400 (Part 22) Clause 8-A	Upto 50 %
4.	Rubber - NR, SBR, NBR, CR & IIR	Compression Set	IS 3400 (Part 10) (Method B)	5 % to 90 %
		Resistance to the Action of Liquid	IS 3400 (Part 6)	
		-Change in Mass	Clause 8.2	5 % to 90 %

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		-Change in Volume	Clause 8.3	5 % to 90 %
		-Change in Hardness	Clause 8.6	5 % to 90 %
		-Change in Tensile Strength & % Elongation	Clause 8.7	5 % to 90 %
		Identification of Vulcanized Rubber	IS 3400 (Part 22)	Qualitative
5.	Rubber Hoses	Testing of Rubber Hoses	IS 443	
		-Tensile Stress-Strain Properties	Clause 5	Upto 34.335 MPa
		-Accelerated Aging	Clause 6	5 % to 95 %
		-Hydrostatic Pressure	Clause 8	Upto 300 kg/cm ² 29.42MPa
		-Effect of Chemicals on Hose Lining and Cover	Clause 9	5 % to 95 %
		-Effect of Liquids on Hose-Change in Physical Properties	Clause 10	5 % to 95 %
		-Resistance to Oil	Clause 11	Qualitative
6.	Rubber - NR, SBR, NBR, CR & IIR	Density	IS 3400 (Part 9) (Method A)	0.5 g/cm ³ to 5.0 g/cm ³
7.	Automotive Tyres (Two & Three Wheeled Motor Vehicles)	Visual and Marking	IS 15627	Qualitative
		Tyre Dimensions:	IND/VEH/2079/2018	300 mm
		Section width	Issue No. 02,	800 mm
		Outer Diameter	Issue date Jan 2018	
		Endurance		Upto Load 90 kN & Drum Speed 100 km/h / 300 rpm
		Load/Speed Performance		Upto Load 90 kN & Drum Speed 100 km/h / 300 rpm
		Tread Wear Indicators		Upto 3 mm
8.	Automotive Tyres (Passenger Car)	Visual and Marking	IS 15633	Qualitative
		Tyre Dimensions:	IND/VEH/2079/2018	300 mm

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	Vehicles)	Section width Outer Diameter Endurance	Issue No. 02, Issue date Jan 2018	800 mm Upto 90 kN & Drum Speed 100 km/h/300 rpm
		Load/Speed Performance		Upto 90 kN & Drum Speed 100 km/h/300 rpm
		Tread Wear Indicators		Upto 3 mm
9.	Automotive Tyres (Commercial Vehicles)	Visual and Marking Tyre Dimensions: Section width Outer Diameter Endurance	IS 15636 IND/VEH/2079/2018 Issue No. 02, Issue date Jan 2018	Qualitative 300 mm 800 mm
		Load/Speed Performance		Up to Load 90 kN & Drum Speed 100 km/h / 300 rpm
		Tread Wear Indicators		Upto 3 mm
10.	Rubber & Rubber Products	Abrasion Resistance Relative Volume Loss	IS 3400 (Part 3)	Upto 200 mg
11.	Tube for Pneumatic Tyres	Air Tightens Fitment Thickness Uniformity	IS:13098 a) Clause 5 b) Clause 3.3 c) Clause 3.3.1	Qualitative Qualitative 0.01mm to 20.00 mm
12.	Valves and Valve Accessories for Pneumatic Tubes & Tyres	-Dimensions and Design Features -Material -Adhesion -Valve Core Leakage	IS:9081 a) Clause 4. 0 b) Clause 6.1 & 8.0 c) Clause 6.5 d) Clause 8.2	0.01 to 300 mm Qualitative (Identification of Brass & Natural Rubber) Qualitative Qualitative
IV.	AUTOMOTIVE COMPONENTS			
1.	Starter Motor Sub Assembly	High Voltage Insulation Resistance Light Running for	IS 3141(Para 7.4) IS 3141 (Para 7.5) IS 3141 (Para 7.6.1)	500 V AC 500 V DC 12V & 24 V DC upto 200 A

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		Performance Check		and 10,000 rpm
2.	Alternator	High Speed Check	IS 8925 (Para 6.5)	12V & 24 V DC upto 200 A and 10,000 rpm
		Performance	IS 8925 (Para 6.7)	12V & 24 V DC upto 200 A and 10,000 rpm
3.	Alternator Sub Assembly	Flash	IS 8925 (Para 6.3)	500 V AC
		Output Characteristic (Cold) Check of Alternator	IS 8925 (Para 6.4)	12V & 24 V DC upto 200 A and 10,000 rpm
4.	Electrical Horn	High Voltage	IS 1884 (Para 8.3)	500V AC
		Current Drawn	IS 1884 (Para 8.4)	At Rated Voltage Current Measurement upto 15A
		Operating Voltage	IS 1884 (Para 8.6)	From 5 to 30 V DC
		Sound Pressure Level	IS 1884 (Para 8.6)	80 dB to 125 dB
		Endurance	IS 1884 (Para 8.8)	ON for 1 s OFF for 3 s
		Continuous Operating	IS 1884 (Para 8.11)	80 to 125 dB
5.	Speedometer Assembly	Visual Examination	IS 11086 Clause 6.2	Qualitative
		Accuracy	Clause 6.3	Upto 9999 rpm
		Hysteresis	Clause 6.4	Qualitative
		Endurance	Clause 6.5	Upto 9999 rpm
6.	Speedometer Cable Assembly	Visual Inspection	IS 4278 Clause 7.1 m	Qualitative
		Service Uses	Clause 7.2	Upto 9999 rpm
		Roll (Inner Cable)	Clause 7.4	Qualitative
		Locking Diameter	Clause 7.5	Qualitative

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