



NABL

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

Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

CONTROLLERATE OF QUALITY ASSURANCE (VEHICLE) 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 discipline of

MECHANICAL TESTING

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

Certificate Number T-2283

Issue Date 18/09/2014



Valid Until 17/09/2016

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

Signed for and on behalf of NABL

N. Venkateswaran
Program Manager

Anil Relia
Director

Prof. K. VijayRaghavan
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन
प्रयोगशाला प्रत्यायन बोर्ड
विज्ञान एवं प्रौद्योगिकी विभाग, भारत

प्रत्यायन प्रमाण-पत्र

गुणता आश्वासन नियंत्रणालय (वाहन) प्रयोगशाला

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

अहमदनगर, महाराष्ट्र

में स्थित इसकी सुविधाओं के लिए

यांत्रिक परीक्षण

के विषय क्षेत्र में किया गया।

(इस प्रयोगशाला के प्रत्यायन के विषय क्षेत्र की जानकारी एन ए बी एल वेबसाइट www.nabl-india.org से भी प्राप्त कर सकते हैं।)

प्रमाण-पत्र संख्या प -2283

जारी करने की तिथि 18/09/2014



वैधता की तिथि 17/09/2016

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

एन. वेंकटेश्वरन

एन. वेंकटेश्वरन
कार्यक्रम प्रबन्धक

अनिल रेलिया

अनिल रेलिया
निदेशक

के. विजयराघवन

प्रो. के. विजयराघवन
अध्यक्ष



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Department of Science & Technology, India

SCOPE OF ACCREDITATION

Laboratory	Controllerate of Quality Assurance (Vehicle) Laboratory, Ministry of Defence (DGQA), Aurangabad Road, Ahmednagar, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	18.09.2014
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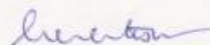
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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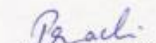
I. MECHANICAL PROPERTIES OF MATERIALS

1.	Metal	Hardness Rockwell Scale 'A', 'B', 'C'	IS:1586-2000 (RA 2006)	20 to 88 HRA 20 to 100 HRB 20 to 70 HRC
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II. PLASTICS, RUBBER AND LEATHER

1.	Rubber Vulcanised / Rubber Products	a) Tensile strength b) Elongation at break	IS:3400- Pt-1 -2003	a) 0.5 to 40 Mpa b) 10% to 800 %
		a) Tensile strength after accelerated ageing at break b) Elongation (after ageing up to Temp 250° C)	IS:3400- Pt-1 & 4 -2003	a) 0.5 to 40 Mpa b) 10% to 1000%
		Air Permeability	IS:3400- Pt-XXI -2003	0 to 10x 10 ⁻¹⁷ m ³ /pa.S
		Splice Flex Strength Test	IND/VEH/2081/2011	Qualitative Test
		Shore 'A' Hardness	IS:3400- Pt-23 -2002	20 to 90 Shore 'A'
		Pull out strength of Rubber base	IS:9081-2001	5 to 250 kg Max
		Tension Set	IS:3400- Pt-13 -1983 (RA 2003)	5% to 95 %
		% Ash Content	IS:3400- Pt-XXII -1984 (Claus A-8)	0.34 % to 12%
		Compression set at constant strain	IS:3400- 1987 (R2003) Pt-X, BS 903 Pt-6	5% to 90% compression


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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Rubber Vulcanised / Rubber Products	Determination of Resistance of Vulcanized Rubber to the action of Liquid	IS:3400-1987 (R 2003), Pt-VI, BS 903 Pt-16	5% to 100% Change in volume
		Classification of Rubber Polymer by Qualitative Analysis	IS 3400, Pt-XXII (R2003) (Clause 3.1 and 3.2)	Qualitative Test
III. AUTOMOTIVE COMPONENTS				
1.	Automotive Components	High Voltage test for starter motor sub assy	IS:3141-2007 (Para 7.4)	AC 240 V _{rms} , frequency between 40 to 60Hz for 5s
		Insulation resistance test for starter motor sub assy	IS:3141-2007 (Para 7.5)	500 V DC
		Light running test for performance check of starter motor assy	IS:3141-2007 (Para 7.6.1)	12V & 24 V DC Upto 200 A and 10,000 rpm
		Flash test for Alternator sub assemblies	IS:8925-1978 (Para 6.3)	12V & 24 V DC Upto 200 A and 10,000 rpm
		Output characteristic (Cold) check of Alternator	IS:8925-1978 (Para 6.4)	12V & 24 V DC Upto 200 A and 10,000 rpm
		High speed check of Alternator	IS:8925-1978 (Para 6.5)	12V & 24 V DC Upto 200 A and 10,000 rpm
		Performance test of Alternator	IS:8925-1978 (Para 6.7)	12V & 24 V DC Upto 200 A and 10,000 rpm
		High Voltage test for automobile Electrical Horn	IS:1884-1993 (Para 8.3)	AC 240 V _{rms} , frequency between 40 to 60Hz for 5s


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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Automotive Components	Current drawn test for Automobile Electrical Horn	IS:1884-1993 (Para 8.4)	At rated voltage current measurement Upto 15A
		Operating voltage test for Automobile Electrical Horn	IS:1884-1993 (Para 8.5)	From 5 to 30V DC
		Sound pressure level test for Automobile Electrical Horn	IS:1884-1993 (Para 8.6)	80 to 125 dBA
		Endurance test for Automobile Electrical Horn	IS:1884-1993 (Para 8.8)	1 sec ON / 3 sec OFF 0.1 Million Cycle
		Continuous operating test for Automobile Electrical Horn	IS:1884-1993 (Para 8.11)	80 to 125 dBA

IV. PERFORMANCE TEST

I. Hydraulic Jack	Testing of Hydraulic Jack as per IS:4552 Pt-II 1993 Clause	IS:4552- Pt-II-1993. Clause	
	a) 7.1.1 Visual test	a) 7.1.1	a) Qualitative test
	b) 7.1.2 Dimensional check	b) 7.1.2	b) Up to 300 mm
	c) 7.1.3 No load test	c) 7.1.3 (Up to 30 Kg)	c) Qualitative test
	d) 7.1.4 Overload test before Performance	d) 7.1.4 (Up to 75 Ton)	d) Qualitative test
	e) 7.1.5 Performance test	e) 7.1.5 (Up to 75 Ton)	e) Qualitative test
	f) 7.1.6 Safety Valve opening test	f) 7.1.6	f) Qualitative test
	g) 7.1.7 Overload test after Performance	g) 7.1.7 (Up to 75 Ton)	g) Qualitative test
	h) 7.1.8 Load sustaining test	h) 7.1.8	h) 0 to 300 mm
	j) 7.1.9 Operating torque test	j) 7.1.9	j) 0 to 30 kg

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