



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

### CERTIFICATE OF ACCREDITATION

#### TCR ADVANCED ENGINEERING PRIVATE LIMITED - TESTING DIVISION

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

C-21/4, GIDC Estate, Makarpura, Vadodara

in the field of

**CHEMICAL TESTING**

(You may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org) to view the scope of accreditation)

Certificate Number T-1330

Issue Date 24/09/2011

Valid Until 23/09/2013

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

Vikas Kumar Jaiswal  
Convenor

Anil Relia  
Director

Dr T. Ramasami  
Chairman



# रा.प्र.प्र.बो.

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

## प्रत्यायन प्रमाण-पत्र

टी सी आर एडवान्सड इंजिनियरिंग प्राइवेट लिमिटेड - टेस्टिंग डिविजन

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”

### वडोदरा

में स्थित इसकी सुविधाओं के लिए

### रसायनिक परीक्षण

के क्षेत्र में किया गया।

प्रमाण-पत्र संख्या प-1330

जारी करने की तिथि 24/09/2011

वैधता की तिथि 23/09/2013

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

विक्रम

विकास कुमार जायसवाल  
संयोजक

अनिल रेलिया

अनिल रेलिया  
निदेशक

टी.टी.रामसामी

डा.टी.रामसामी  
अध्यक्ष




# NABL

**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	TCR Advanced Engineering Private Limited – Testing Division, C-21/4, GIDC Estate, Makarpura, Vadodara		
Accreditation Standard	ISO/IEC 17025:2005		
Field	Chemical Testing	Issue Date	24.09.2011
Certificate Number	T-1330	Valid Until	23.09.2013
Last Amended on	-	Page	1 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection (%)
1.	Carbon and low alloy steel	Carbon	ASTM E415 – 08	0.05-1.10
		Sulfur	RA in 2008	0.005-0.06
		Phosphorous	IS 8811(1998)	0.005-0.06
		Manganese		0.15-2.00
		Silicon		0.02-0.30
		Chromium		0.03-1.70
		Nickel		0.005-1.70
		Molybdenum		0.05-0.30
		Copper		0.005-0.30
		Titanium		0.01-0.03
		Tungsten		0.05-0.60
Nitrogen		0.005-0.01		
2.	Stainless steel, Tools steel	Carbon	ASTM E-1086- 94	0.01- 4.30
		Sulfur	RA in 2005	0.005-0.050
		Phosphorous	IS 9879 (1998)	0.010-0.050
		Manganese		0.20-2.00
		Silicon		0.10-2.00
		Chromium		0.50-26.0
		Nickel		0.10-25.0
		Molybdenum		0.04 - 9.50
		Copper		0.03 - 4.0
		Vanadium		0.03 - 2.50
		Cobalt		0.01- 8.00
		Titanium		0.05 - 1.0
		Tungsten		0.05-18.00
		Niobium		0.01 - 0.60
Aluminum		0.005 - 0.10		
Nitrogen		0.01 - 0.2		
3	Copper & its Alloys	Zinc	TCRADV/ TM-35	0.005- 40.00
		Lead		0.005- 6.20
		Tin		0.005 - 10.0
		Phosphorous		0.005-0.30
		Manganese		0.005-0.50
		Iron		0.005 - 4.50

  
Convenor



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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 (%)
4.	Aluminium & its Alloys	Nickel	ASTM E1251 -07	0.050 - 5.00
		Silicon		0.005- 0.30
		Aluminum		0.005 - 10.0
		Sulphur		0.005 - 0.05
		Antimony		0.01 - 0.35
		Silicon		0.05-9.00
		Iron		0.050-1.0
		Copper		0.050- 3.5
		Manganese		0.050-0.50
		Magnesium		0.050-3.0
		Nickel		0.050- 2.00
		Zinc		0.050- 1.30
		Titanium		0.05-0.20
		Tin		0.05-0.30
Chromium	0.04 - 0.06			
5.	Nickel & its Alloys	Carbon	TCRADV/ TM-34	0.010-0.15
		Sulfur		0.005-0.020
		Phosphorous		0.005-0.020
		Manganese		0.050-1.6
		Silicon		0.050-2.50
		Chromium		0.50 – 22.0
		Molybdenum		0.050-20.00
		Aluminum		0.050-2.00
		Copper		0.05-30.0
		Iron		1.50 - 18.50
		Niobium		0.30-5.50
		Titanium		0.05-1.00
		Cobalt		0.10 - 2.50

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