



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

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

KJV ALLOY CONDUCTORS PVT. LTD., BOREGAON

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

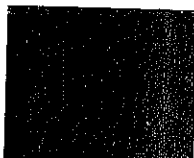
Plot No. 15 and Part of 20, Tehsil-Sauasar, Chhindwara, Madhya Pradesh

in the field of

TESTING

Certificate Number TC-5002

Issue Date 27/02/2017



Valid Until 26/02/2019

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


N. Venkateswaran
Program Director


Anil Relia
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory KJV Alloy Conductors Pvt. Ltd., Boregaon, Plot No. 15 and Part of 20, Tehsil-Sauasar, Chhindwara, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5002 Page 1 of 4

Validity 27.02.2017 to 26.02.2019 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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CHEMICAL TESTING

I.	METALS AND ALLOYS			
1.	Aluminum & Its Alloys	Si	ASTME : 1251 2011 (Spectro Analysis)	0.07 % to 0.80 %
		Fe		0.20 % to 0.50 %

Vinay

Vinay Kumar Tyagi
Convenor

N. Venkateswaran

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Program Director



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ELECTRICAL TESTING

I.	CABLE AND ACCESSORIES			
1.	Aerial Bunched cable/Conductor Conductors for Overhead Transmission Purposes :- A) Aluminium stranded conductors B) Aluminium conductors galvanized steel reinforced C) Aluminium alloy conductors	Freedom of test defects Direction of lay Stranding Dimensional Measurement Tensile Strength/Breaking load test	IS 398 PART 1-1996 RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 4-1994 RA 2014 IS 398 PART -5 RA 2012 IS 398 PART 1-1996 RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 4-1994 RA 2014 IS 398 PART 5-RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 5-RA 2012 IS 398 PART 1-1996 RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 4-1994 RA 2014 IS 398 PART 5-RA 2012 IS 398 PART 1-1996 RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 4-1994 RA 2014 IS 398 PART 5-RA 2012	Visual examination Clock wise/Anti clock wise Visual examination 3.0 mm to 300 mm 1.0 mm to 25 mm 50 N to 2500 N 5000 N to 50000 N

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		Resistance Test	IS 398 PART 1-1996 RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 4-1994 RA 2014	4.93 mΩ to 17.9 kΩ
		Lay Ratio	IS 398 PART 5-RA 2012 IS 398 PART 1-1996 RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 4-1994 RA 2014	1 to 50
		Wrapping Test	IS 398 PART-5 RA 2012 IS 398 PART 1-1996 RA 2012 IS 398 PART 2-1996 RA 2012	Up to 5 mm D
		Elongation Test	IS 398 PART 5-RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 4-1994 RA 2014	1 to 100 %
		Torsion Test	IS 398 PART 5-RA 2012 IS 398 PART 2-1996 RA 2012 IS 398 PART 5-RA 2012	10 to 50 Turn
		Mass of zinc testing Uniformity of zinc coating	IS:6745-1972,RA 2011 IS:2633-1986,RA 2011	20 to 300 gm/m ² Visual
2.	Aerial Bunched Cables for working Voltage up to & incl. 1100 Volt	Wrapping test of Aluminum Conductor	IS:10810 (Pt.3)-1984,RA 2011	Upto 5 mm dia
		Resistance Test	IS:10810(Pt. 5)-1984,RA 2011 IS:10810(Pt. 42)-1984,RA 2011	4.93 mΩ to 17.9 kΩ

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Tensile strength of Insulation	IS:10810(Pt. 7)-1984,RA 2011	500 N to 2500 N
		Elongation at Break	IS:10810(Pt. 7)-1984,RA 2011	10 mm to 1000 mm
		Ageing in air oven	IS:10810(Pt. 11)-1984,RA 2011	500 N to 2500 N
		Tensile strength Before Ageing		
		Tensile strength after Ageing		
		Shrinkage Test	IS:10810(Pt. 12)-1984,RA 2011	0.5 % to 50 %
		Hot Set Test	IS:10810(Pt. 30)-1984,RA 2011	
		Elongation under load		0 to 175 %
		Permanent Elongation		0 to 15 %
		Water Absorption Test	IS:10810(Pt. 33)-1984,RA 2011	50 °C to 90 °C 0.01 mg/Sq cm to 10 mg/Sq cm
		Insulation Resistance/ Volume Resistivity test	IS:10810(Pt. 43)-1984,RA 2011	2.03 to 100 X 10 ⁵ MΩ
		IS		
		At 27 deg		
		At 70 deg		
		Elongation Test	IS:14255-1995,RA 2005	1 % to 100 %

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