



**National Accreditation Board
for Certification Bodies**



Accreditation Certificate

NABCB

hereby confirms that

Electrical Research and Development Association

ERDA Road, GIDC,
Makarpura Industrial Estate,
Vadodara - 390010, Gujarat, India

complies with

NABCB Accreditation Criteria for Inspection Bodies

(ISO/IEC 17020:2012)

as Type 'A' Inspection Body
to carry out

Inspection

as per accompanying

Schedule I : Scope of Accreditation

Schedule II : Office(s) under Accreditation

Accreditation Certificate No.:	IB 046
Date of Initial Accreditation :	March 09, 2018
Date of Last Renewal :	March 09, 2021
Validity of Accreditation :	March 08, 2025

March 17, 2021
Issue Date


(Rajesh Maheshwari)
Chief Executive Officer

(Please refer www.nabcb.qcin.org.in for validity of the certificate or contact NABCB for any related queries)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

Type 'A' Inspection Body

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
IAF Scope 16 PCC Pole	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 1678: 1998 (Reaffirmed 2018)	Prestressed concrete poles for overhead power traction and telecommunication lines - Specification
		IS 2193:1986 (Reaffirmed 2017)	Precast Prestressed Concrete Street Lighting Poles Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
Precast Concrete Pipes	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 458:2003	Precast Concrete Pipes (with and without reinforcement)
		IS 784: 2019	Pre-Stressed Concrete Pipes (incl. specials) Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
IAF Scope 17 Steel Tubes Steel Tubes for Water Wells Steel Tubes, Tubulars and other Wrought Steel Fittings	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 4270:2001 (Reaffirmed 2017)	Steel Tubes Used For Water Wells
		IS 1239 : Part 1:2004 (Reaffirmed 2019)	Steel Tubes, Tubulars And Other Wrought Steel Fittings - Part 1 : Steel Tubes

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Transmission and Distribution Hardware	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 1573:1986 (Reaffirmed 2016)	Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
		IS 4759: 1996 (Reaffirmed 2016)	Electroplated Coatings of Zinc on Iron and Steel
		ISO 1461: 2009	Hot-dip Zinc Coatings on Structural Steel and other allied products
		IS 2486 : Part 1:1993 (Reaffirmed 2018)	Hot dip galvanized coatings on fabricated iron and steel articles — Specifications and test methods.
		IEC 60372:2020	Metal Fittings of Insulators for Overhead Power Lines With Nominal Voltage Greater Than 1000 V: Part 1 General Requirements And Tests
		BS 3288-1:2014	Locking devices for ball and socket couplings of string insulator units - Dimensions and tests
BS 16:1974	Insulator and conductor fittings for overhead power lines. Performance and general requirements		
IS 2062: 2011 (Reaffirmed 2016)	Specification for telegraph material (insulators, pole fittings, etc.)		
ISO 630-1:2011	Hot Rolled Medium and High Tensile Structural Steel		
			Structural steels - Part 1: General technical delivery conditions for hot-rolled products

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
		BS EN 10025-1:2004 IS 2713 : Part 1 to 3 : 1980	Hot rolled products of structural steels. General technical delivery conditions. Tubular Steel Poles for Overhead Power Lines Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc
IAF Scope 18 Pump Set	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 1710: 1989 (Reaffirmed 2019) IS 5120: 1977 (Reaffirmed 2016) IS 8034: 2018 IS 14220: 2018 ISO 9906:2012	Pumps - Vertical Turbine Mixed and Axial Flow, For Clear Cold Water. Technical Requirements for Rotodynamic Special Purpose Pumps Submersible Pumpsets – Specification Openwell Submersible Pumpsets Rotodynamic pumps -- Hydraulic performance acceptance tests -- Grades 1, 2 and 3 Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc
IAF Scope 19 Transformers	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 1180 : Part 1:2014	Distribution Transformers Up to And Including 2 500 KVA, 33kV - Specification Part 1 Mineral Oil Immersed

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Rotating Machines Electric Motor Generators	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 2026 : Part 1: 2011 (R2016) IS 2026 : Part 2 : 2010 IS 2026 : Part 3 :2018/IEC 60076- 3:2013 IS 2026 : Part 4 : 1977 IEC 60076-1:2011 IEC 60076- 2:2011 CBIP Publication No. 317	Power transformers: Part 1 general Power transformers: Part 2 temperature - Rise Power transformers: Part 3 insulation levels, dielectric tests and external clearances in air Specification for power transformers: Part 4 terminal markings, tappings and connections Power Transformers- Part 1: General Power transformers - Part 2: Temperature rise for liquid-immersed transformers Manual on Transformer Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
		IS 12615: 2018	Line operated three phase AC motors (IE Code) "Efficiency classes and performance specification"
		IS 9283: 2013 (R2018) IS 15999 : Part 1 : 2016/IEC 60034-1 : 2017	Motors for Submersible Pump sets. Rotating Electrical Machines Part 1 Rating and Performance
		IS 13364 : Part 1 : 1992	AC generators driven by reciprocating internal combustion engines - Specification: Part 1 alternators rated up to 20 KVA

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Energy Meters AC Static Watt- Hour Meters Class 0.5, 1 & 2	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 13364 : Part 2 : 1992	AC generators driven by reciprocating internal combustion engines - Specification: Part 2 alternators rated above 20 KVA and up to 1250 KVA
		IEC 60034-1 : 2017	Rotating electrical machines - Part 1: Rating and performance Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
		CBIP Publication No. 88, 304, 325	Manual on standardization
		IS 13779:1999 (Reaffirmed 2014)	AC Static Watt-hour Meters, Class 1 And 2
AC Static CT operated Electrical Energy Meters (Trivector Meters)		IEC 62052-11:2020	Electricity metering equipment (a.c.) - General requirements, tests and test conditions - Part 11: Metering equipment
		IEC 62053-21:2020	Electricity metering equipment - Particular requirements - Part 21: Static meters for AC active energy (classes 0.5, 1 and 2)
		IS 14697:1999 (Reaffirmed 2019)	AC Static Transformer Operated Watthour and Var-hour Meters, Class 0.2 S And 0.5 S
		IEC 62052-11:2020	Electricity metering equipment (a.c.) - General requirements, tests and test conditions - Part 11: Metering equipment

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
AC Static Watt- Hour Meters for Active Energy:		IEC 62053-22:2020	Electricity metering equipment - Particular requirements - Part 22: Static meters for AC active energy (classes 0.1S, 0.2S and 0.5S)
		IEC 62053-23:2020	Electricity metering equipment - Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3)
		IEC 62053-24:2020	Electricity metering equipment - Particular requirements - Part 24: Static meters for fundamental component reactive energy (classes 0.5S, 1S, 1, 2 and 3)
AC Static Meters for Reactive Energy Class 2&3: Pre-Paid Energy Meter		IS 14697:1999 (Reaffirmed 2019) IEC 62052-11:2020	AC Static Transformer Operated Watthour and Var-hour Meters, Class 0.2 S And 0.5 S
		IEC 62053-22:2020	Electricity metering equipment (a.c.) - General requirements, tests and test conditions - Part 11: Metering equipment
Smart Energy Meter		IEC 62053-23:2020	Electricity metering equipment (a.c.) - Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3)
		IS 15884:2010 (R2015) IEC 62055-31:2005	Alternating Current Direct Connected Static Prepayment Meters For Active Energy (Class 1 and 2) Electricity metering - Payment systems - Part 31: Particular requirements - Static payment meters for active energy (classes 1 and 2)
		IS 16444 :2015	A.C. Static Direct Connected Watthour Smart Meter Class 1 And 2 – Specification

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Panel Meter		IS 16444 : Part 2 : 2017	AC static transformer operated watt-hour and var - Hour smart meters, class 0.2 S, 0.5 S and 1.0 S: Part 2 specification transformer operated smart meters
		IS 13875 : Part 1:1993 (Reaffirmed 2020)	Digital Measuring Instruments for Measurement & Control: Part 1 General Specifications Concerning Terms, Tests & Data Sheet Details
		IS 13875 : Part 2:1993 (Reaffirmed 2020)	Digital Measuring Instruments for Measurement & Control: Part 2 Terms, Tests & Data Sheet Details of Instruments For Measuring Analog Quantities
		IS 13875 : Part 3:1993 (Reaffirmed 2020)	Digital Measuring Instruments For Measurement & Control: Part 3 Terms, Tests & Data Sheet Details Of Instruments For Measuring Digital Quantities
LT & HT Cables	Vendor Assessment, Stage wise/Final	IS 10810 (part- 0 to 64): 1984 (Reaffirmed 2016)	Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc. Methods of Test for Cables:
PVC Insulated Sheathed /Unsheathed cables/cords with rigid and solid flexible conductor for rated voltages up to and including 1100 V	-Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 694:2010 (Reaffirmed 2020)	Insulated Unsheathed--And Sheathed Cables/cords With Rigid And--Flexible Conductor For Rated Voltages-Up To And Including 1100 V

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
PVC Insulated (Heavy duty) electric cables : For working voltages up to & including 1100 Volts		IS 1554 : Part 1:1988 (Reaffirmed 2020)	PVC Insulated (heavy Duty) Electric Cables: Part 1 For Working Voltages Upto And Including 1 100 V
PVC Insulated (Heavy duty) electric cables : For working voltages from 3.3 kV up to & including 11 kV Volts		IS 1554 : Part 2:1988 (Reaffirmed 2020)	PVC Insulated (Heavy Duty) Electric Cables - Part 2 : For Working Voltages From 3.3 KV Up To And Including 11 KV
Aerial Bunch Cables up to and including 1100 Volts.		IS 14255:1995 (Reaffirmed 2020)	Aerial Bunched Cables For Working Voltages Upto And Including 1100 Volts
XLPE Insulated cable : For working voltage up to And Including 1100 kV		IS 7098 : Part 1:1988 (Reaffirmed 2020)	Crosslinked Polyethylene Insulated PVC Sheathed Cables: Part 1 For Working Voltage Upto And Including 1100 V
XLPE Insulated cable : For working voltage From 3.3 KV Up To And Including 33 KV		IS 7098 : Part 2:2011 (Reaffirmed 2020)	Crosslinked Polyethylene Insulated Thermoplastics Sheathed Cables - Part 2 For Working Voltages From 3.3 KV Up To And Including 33 KV

March 17, 2021
Issue Date


(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
XLPE Insulated cable : For working voltage from 3.3 kV up to and including 66 kV		IS 7098 : Part 3:1993 (Reaffirmed 2014)	Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables: Part 3 For Working Voltages From 66 KV Upto And Including 220 KV Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
Overhead Conductor AAC Conductor ACSR Conductor	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IEC 61089:1991 IS 398 : Part 1:1996 (Reaffirmed 2018) IS 398 : Part 2:1996 (Reaffirmed 2018) IS 398 : Part 5:1992 (Reaffirmed 2018)	Round wire concentric lay overhead electrical stranded conductors Aluminum Conductors For Overhead Transmission Purposes: Part 1 Aluminum Stranded Conductors Aluminium Conductors For Overhead Transmission Purposes: Part 2 Aluminium Conductors, Galvanized Steel Reinforced Overhead Transmission Purposes: Part 5 Aluminium Conductors - Galvanized Steel Reinforced for Extra High Voltage (400 KV And Above)
AAAC Conductor		IS 398 : Part 4:1994 (Reaffirmed 2014) IS 9997:1991 (Reaffirmed 2011)	Aluminium Conductors for Overhead Transmission Purposes: Part 4 Aluminium Alloy Stranded Conductors (aluminium Magnesium Silicon Type) Aluminium Alloy Redraw Rods for Electrical Purposes Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
HTLS Conductor		Technical Specification of Power Transmission Utility	GETCO Technical Specification PGCIL Technical Specification SECTION-VII (VOLUME-II)
		ASTM B 609	Standard Specification for Aluminum Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes
		ASTM B 857-18	Standard Specification for Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Supported (ACSS/TW) Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
High Voltage Alternating Current Circuit Breaker	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS/IEC 62271 : PART 1 : 2007 (R2018) IS/IEC 62271 : PART 100 : 2008	High-voltage switchgear and Controlgear - Part 1: Common specifications High - Voltage Switchgear and Controlgear Part 100 Alternating - Current Circuit - Breakers Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
LT PCC & MCC Panel, RMU, Isolator AB switch Do fuse etc.	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS/IEC 61439 : Part 1 : 2011	Low-Voltage Switchgear and Controlgear Assemblies Part 1 General Rules
		IS/IEC 61439 : Part 2 : 2011 (R2018)	Low Voltage Switch Gear and Controlgear Assemblies Part 2 Power Switch Gear and Control Gear Assemblies
		IS 8623 : Part 2:1993 (Reaffirmed 2013)	Low-voltage Switchgear And Controlgear Assemblies - Part 2 : Particular Requirements For Busbar Trunking Systems (Busway)
		IS 8623 : Part 3:1993 (Reaffirmed 2018)	Low-Voltage Switchgear And Controlgear Assemblies - Part 3 : Particular Requirements For Equipment Where Unskilled Persons Have Access For Their Use
		IS/IEC 62271 : Part 102 : 2003/IEC 62271-102:2018	High-voltage Switchgear and Controlgear - Part 102: Alternating current disconnectors and earthing switches
		IS/IEC 62271 : Part 103 : 2011	High-voltage Switchgear and Controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV
		IS/IEC 62271 : Part 104 : 2009/IEC 62271-104:2020	High - Voltage Switchgear and Controlgear: Part 104 alternating current switches for rated oltages of 52 kV and above
		IS 9385 : Part 1 : 2018/IEC 60282- 1:2009	High-voltage Switchgear and Controlgear - Part 104: Alternating current switches for rated voltages higher than 52 kV

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
AC Enclosed Metal Switchgears and Control gear for rated voltage above 1 kV and up to and including 52 kV	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 9385 : Part 2 : 2018/IEC 60282- 2:2008	High - Voltage fuses: Part 2 expulsion fuses (First Revision) Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc..
		IS/IEC 62271 : PART 1 : 2007/IEC 62271-1:2007 (R2018) IEC 62271- 200:2011	High-voltage switchgear and controlgear - Part 1: Common specifications High-voltage switchgear and controlgear - Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
Instrument Transformers	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing		

March 17, 2021
Issue Date


(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Current Transformer		IS 2705 : Part 1:1992 (Reaffirmed 2017)	Current Transformers: Part 1 General Requirements.
Potential Transformer		IS 16227 : Part 1 : 2016/IEC 61869-1:2007	Instrument transformers: Part 1 general requirements
		IS 16227 : Part 2:2016/IEC 61869-2:2012	Instrument Transformers Part 2 Additional Requirements For Current Transformers.
		IS 16227 : Part 1 : 2016/IEC 61869-1:2007	Instrument transformers: Part 1 general requirements
		IS 16227 : Part 3 : 2015/IEC 61869-3	Instrument transformers: Part 3 additional requirements for inductive voltage transformers
		IS 16227 : Part 5 : 2015/IEC 61869-5:2011	Instrument transformers: Part 5 additional requirements for capacitors voltage transformers
Lightning Arrestor	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ -Inspection of Lot -Witness of Testing	IS 16227 : Part 4 : 2015/IEC 61869-4:2013	Instrument transformers: Part 4 additional requirements for combined transformers Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
		IS 15086 : Part 4 : 2017/IEC/PAS 60099-4 : 2014	Surge arresters: Part 4 metal - Oxide surge arresters without gaps for A.C. systems. Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Insulator	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 731:1971 (Reaffirmed 2016)	Porcelain Insulators For Overhead Power Lines With A Nominal Voltage Greater Than 1000 V
		IEC 60383-1:1993	Insulators for overhead lines with a nominal voltage above 1000 V - Part 1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria
		IS 1445:1977 (Reaffirmed 2019)	Porcelain Insulators For Overhead Power Lines With A Nominal Voltage Up To And Including 1 000 V
		IS/IEC 60168 : 2000/IEC 60168 : 2000	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1 000 v
		IS 5300: 1969 (Reaffirmed 2019)	Porcelain Guy Strain Insulator
		IS/IEC 62155 : 2003/IEC 62155 : 2003	Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1 000 v
		IEC 61109:2008	Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1000 Volts - Definitions, test methods and acceptance criteria
			Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Battery and Battery Charger	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IS 8320 : 2000 (R2015) IS 1651 : 2013 IS 10918 : 1984 IS 15549 : 2005 (R2020)	General requirements and methods of tests for lead - Acid storage batteries Stationary cells and batteries, lead - Acid type (With Tubular Positive Plates) - Specification Specification for vented type nickel cadmium batteries Stationary valve regulated lead acid batteries – Specification Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc
PV Module	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IEC 61215-1:2021 IEC 61215-1- 1:2021 IEC 61215-1- 2:2021 IEC 61215-1- 3:2021	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for Testing of Crystalline Silicon Photovoltaic (PV) modules Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Lamp Luminaire and	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IEC 61215-1-4:2021	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In,GA)(S,Se) ₂ based photovoltaic (PV) modules
		IS/IEC 61730-2:2016	Photovoltaic (PV) Module Safety Qualification
		IS 16102 : Part 1 : 2012 (R2017)	Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc.
		IS 16102 : Part 2 : 2017	Self - Ballasted led lamps for general lighting services: Part 1 safety requirements
		IS 10322 : Part 1 : 2014	Self - Ballasted led lamps for general lighting services: Part 2 performance requirements (First Revision)
		IS 10322 : Part 5 : Sec 1 : 2012	Luminaires: Part 1 general requirements and tests (First Revision)
		IS 10322 : Part 5 : Sec 2 : 2012	Luminaires: Part 5 particular requirements: Sec 1 fixed general purpose luminaires
IS 10322 : PART 5 : SEC 3 : 2012	Luminaires: Part 5 particular requirements: Sec 2 recessed luminaires		
IS 10322 : Part 5 : Sec 5 : 2013	Luminaires: Part 5 particular requirements: Sec 3 luminaires for road and street lighting		
			Luminaires: Part 5 particular requirements: Sec 5 floodlights
			Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule I (Scope of Accreditation)

Electrical Research and Development Association

IAF Scope/ Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Fibre Optic Cable	Vendor Assessment, Stage wise/Final Inspection- -Review of Documents/ Records. -Inspection of Lot -Witness of Testing	IEC 60794-1- 1:2015 RLV	Optical fibre cables - Part 1-1: Generic specification – General
		ITU-T- G.652: 2016	Characteristics of a single-mode optical fibre and cable Customer requirements in the form of QAP, Approved Drawing, GTP etc. and technical specification which are generally based on National and International Codes and Standards, CEA, MNRE Guidelines etc

March 17, 2021
Issue Date


(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid up to March 08, 2025)



National Accreditation Board for Certification Bodies



Schedule II

(Office(s) under Accreditation)

Electrical Research and Development Association

Location	Address	Key activities performed
Vadodara	ERDA Road, GIDC, Makarpura Industrial Estate, Vadodara – 390010, Gujarat, India	Top management functions, quality management system functions, administration & accounts, other key activities as applicable to main office. Inspection contract review, Inspection planning & execution, Inspection personnel authorization & assignment, Issue of inspection reports / certificates.

March 17, 2021
Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(The schedule must be accompanied by the Accreditation Certificate No. **IB 046** valid upto March 08, 2025)