



National Accreditation Board for Certification Bodies



Accreditation Certificate

NABCB

hereby confirms that

Apave TIV India Pvt. Ltd.

Lakhani's Centrium, 6th Floor,
Plot No. 27, Sector 15, CBD Belapur,
Navi Mumbai – 400614, Maharashtra, 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 017

Date of Initial Accreditation : September 30, 2013

Date of Last Renewal : March 27, 2025

Validity of Accreditation : September 29, 2028

March 27, 2025

Issue Date

(Rajesh Maheshwari)
Chief Executive Officer

(Please refer <http://nabcb.qci.org.in> for validity of the certificate or contact NABCB for any related queries)



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Schedule I

(Scope of Accreditation)

Apave TIV India Pvt. Ltd.

Type 'A' Inspection Body

IAF Scope / Field of Inspection and Specific Item(s)	Stage and Range of Inspection(s)	Inspection Requirement(s)	
		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
IAF Scope 17 Basic Metals Structural Shapes – Plates, Coils, Bars, Rods, Sections, Wires Ferrous Alloys, structural Steels, Precious metals, Ferrous & Non- Ferrous & Alloy Metals	Stagewise / Final Inspection	BS EN 10083-1:2006	Steels for quenching and tempering
		BS EN 10250-4:2000	Open steel die forgings for general engineering purposes. Stainless steels
		BS EN 10085:2001	Nitriding steels, Steels, Case- hardening steels – Semi-finished products, Billets, Blooms, Slabs, Bars (materials), Flats (shapes), Rolled products, Forgings
		BS/PD 970:2005	Wrought steels for mechanical and allied engineering purposes.
		BS EN 10087:1999	Free cutting steels - semi-finished products, hot rolled bars and rods
		BS EN 10095:1999	Heat resisting steels and nickel alloys
		BS EN 10084:2008	Case hardening steels

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		EN 10028:2009	Flat products made of steels for pressure purposes
		IS 2002:2009	Steel plate for pressure vessel for intermediate and high temperature service including boilers
		IS 1030:1998 (Fifth Revision)	Carbon steel castings for general engineering purposes
		IS 7452:2013	Hot rolled steel sections for doors, windows and ventilators
		BIS IS 801:1975 (RA 2001)	Practice For Use Of Cold Formed Light Gauge Steel; Structural Members In General Building Construction
		IS 2102-2: 1993 (RA 2014)	General Tolerances
		IS 1239-1:2004: IS 1239-2:2011	Steel Tubes, Pipes and Fittings
		BIS IS 1875:1992 (RA 2004)	Carbon steel billets, blooms, slabs and bars for forgings
		IS 4163:2014	Determination of Content Of Non-metallic Inclusions
		IS 1570:1987	Schedules for Wrought Steels, Part 2: Carbon Steels - (Unalloyed Steels), Section 2: Carbon Steel Wires with Related Properties
		IS 4923:1997	Hollow steel sections for structural use
		IS 800:2007	Indian Code of Practice for Construction in Steel

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
		IS 1732:1989	Steel bars, round and square for structural and general engineering purposes
		IS 2062:2011	Hot Rolled Medium and High Tensile, Structural Steel
		IS 7887:1992	Mild steel wire rod for general engineering purposes
		IS 10748 :2004	Specification of Hot Rolled Carbon Steel Skelp & Strips for manufacture of steel tubes & pipes
		EN 47: 2012	Alloy Steel Round Bar
		EN 10025-1,2,3 :2011/SANS50025	Hot Rolled product of structural Steel
		ASME SEC II Part A & B—2015 & 2017	Ferrous & Nonferrous Material
		ASTM (A,B,C,D,E F,G)- 2012, 2013, 2014, 2015, 2016	American Society for Testing and Materials
		ASTM A 516:2015	Pressure Vessel Plates, Carbon Steel for Moderate and Low Temperature Service
		ASTM A 578:2012	Straight-Beam Ultrasonic Examination of Rolled Steel Plates for Special Applications
		ASTM E 381:2012	Macro-etch Testing Steel Bars, Billets, Blooms, and Forgings
		ASTM E 709:2015	Magnetic Particle Testing
		ASTM E 1444:2016	Magnetic Particle Testing

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Schedule II

(Office(s) under Accreditation)

Apave TIV India Pvt. Ltd.

Location	Address	Key activities performed
Mumbai (Main Office)	Lakhani's Centrium, 6 th Floor, Plot No. 27, Sector 15, CBD Belapur, Navi Mumbai – 400614, Maharashtra, India	Top Management functions, Quality Management System functions, administration & accounts, other key activities. Inspection contract review, Inspection planning & execution, Inspection personnel authorization & assignment, Issue of inspection reports / certificates.

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
		ASTM A 388:2010	Ultrasonic Examination of Steel Forgings
		ASTM A 829:2014 (SAE 4140 / SAE 4142)	Alloy Structural Steel Plates
		ASTM E 317:2016	Performance Characteristics of Ultrasonic Pulse-Echo Testing Instruments and Systems without the Use of Electronic Measurement Instruments
		NACE MR 0175:2015 / ISO15156:2002 & 2015	Sulfide Stress Corrosion Cracking Resistant Metallic Material for oil field equipment
		ASTM E 10:2015	Brinell Hardness of Metallic Materials
		ASTM E 18:2016	Rockwell Hardness of Metallic Materials
		ASTM E 110:2014	Rockwell and Brinell Hardness of Metallic Materials by Portable Hardness Testers
		ASTM E 23:2016	Notched Bar Impact Testing of Metallic Materials
		ASTM E 112:2013	Determining Average Grain Size
		ASTM B476 - 01(2012)	Wrought Precious Metal Electrical Contact Materials
		ASTM B844 - 98(2016)	Silver-Tin Oxide Contact Material
		ASTM Volume 02.04-2014, 2015 & 2016	Non-ferrous Metals - Nickel, Titanium, Lead, Tin, Zinc, Zirconium, Precious, Reactive, Refractory Metals and Alloys:

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Pipe Fittings	Stagewise / Final Inspection	API 16A:2018 API 6A, 6D, 16A:2022 ASME V:2023 ASME VIII:2023 ASME IX-2023/PD 190 DIN 17200:19787 (C 45) / ASTM A29:2020 ASTM-E140:2019 ASTM-E112:2013	Materials for Thermostats, Electrical Heating and Resistance Contact, and Connectors Drill Through Equipment Wellhead & Christmas Tree Equipment Non-Destructive Examination Rules for construction of pressure vessels Welding, Brazing, and Fusing Qualifications. Stainless steel round rods, AISI 1045 / C45 steels High-strength Steel Plate, Wear Resistant Steel, Silicon Steel, Cold Heading Steel, Free Cutting Steel, Mold Steel, SAE4320H steels Hardness Conversion Tables for Metals Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Superficial Hardness, Knoop Hardness, Scleroscope Hardness, and Leeb Hardness; Grain Sizing Disc - Root 2
		ASTM A 234:2015	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service

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Tubes	Stagewise / Final Inspection	ASTM A 182:2015	Forged or Rolled Alloy-Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High- Temperature Service
		EN 877:1999	Cast Iron Pipes and fittings
		ASTM A 420:2015	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low- Temperature Service
		ASTM A 403:2015	Wrought Austenitic Stainless Steel Piping Fittings
		ASTM A 758:2015	Wrought-Carbon Steel Butt- Welding Piping Fittings with Improved Notch Toughness
		ASTM A 774:2015	As-Welded Wrought Austenitic Stainless Steel Fittings for General Corrosive Service at Low and Moderate Temperatures
		IS 1161:2014	Steel Tubes for Structural Purposes
		IS 3601:2006	Steel Tubes for Mechanical and General API 16A-2016 Engineering Purposes
		ASTM A 178:2019	Electric-Resistance-Welded Carbon Steel and Carbon- Manganese Steel Boiler and Super heater Tubes
		ASTM A 179:2024	Seamless Cold-Drawn Low- Carbon Steel Heat-Exchanger and Condenser Tubes

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
Pressurized and Unpressurised Vessels & Piping	Stagewise / Final Inspection	ASTM A 192:2024	Seamless Carbon Steel Boiler Tubes for High-Pressure Service
		ASTM A 209:2021	Seamless Carbon-Molybdenum Alloy-Steel Boiler and Super heater Tubes
		ASTM A 213:2022	Seamless Ferritic and Austenitic Alloy-Steel Boiler, Super heater, and Heat-Exchanger Tubes
		ASTM A 214:2019	Electric-Resistance-Welded Carbon Steel Heat-Exchanger and Condenser Tubes
		ASTM A 249:2023	Welded Austenitic Steel Boiler, Super heater, Heat-Exchanger, and Condenser Tubes
		API 5CT:2023	Casing and Tubing
		EN 10255:2004	Non-alloy steel tubes suitable for welding and threading
		ASME Sec VIII:2023	Rules for construction of pressure vessels
		IS 2825:1969	Code for Unfired pressure vessels
		EN 13445:2014	Unfired Pressure Vessels
		ASME B 31.3:2016	Process Piping & Piping Skids
		ASME B 31.1:2016	Power Piping & Piping Skids
		AWS D1.1:2015	Structural Welding code

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
		BS EN 545:2010	Ductile iron pipes, fittings, accessories and their joints for water pipelines
		BS EN 598: 2007+A1:2009	Ductile iron pipes, fittings, accessories and their joints for sewerage applications
		IS 3589:2001	Steel Pipes for Water and Sewage
		IS 803:1976 (RA 2005)	Code of Practice for Design Fabrication and. Erection of Vertical Mild Steel Cylindrical Welded Oil. Storage Tanks
		API 5L: 2024	Specification for line pipe - Seamless / Welded / ERW pipes
		API 650:2007	Welded Tanks for Oil Storage,
		API 620:2013	Design and Construction of Large, Welded, Low-Pressure Storage Tanks
		IS 2825:1969 (RA 2002)	Code For Unfired Pressure Vessels
		AS 1210:2010	Pressure vessels
		EN 13445-3:2014	Unfired pressure vessels
		EN13458:2002	Cryogenic vessels – Static vacuum insulated vessels - Design, fabrication, inspection and testing
		PD 5500:2006 + SMPV Rule & PD 5500:2018; AD Merkblatter:2014	Unfired, fusion welded pressure vessels

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Boilers	Stagewise / Final Inspection	ASME Sec I:2015 EN 12952:2012 & 12953:2012 IBR:1950 EN 12952:2015 EN 12953:2012	Power Boilers Water Tube Boiler standards & Shell Boiler Indian Boiler Regulations Water-tube boilers, Steam boilers, Boilers, Auxiliary, Heating equipment, Heaters, Fired pressure vessels Design, construction, testing, inspection and operation of electrically heated and directly fired shell boilers
Tanks	Stagewise / Final Inspection	IS 803:1976 ASME -Sec. VIII:2023; IS 2825:1969(R2017); PD 5500:2006; API 510:2022; API 572:2023; IS 804:1967 (R2003); ASME Sec IX:2023, ASME Sec V: 2023, IS 10987:1992	Code of Practice for Design Fabrication and Erection of Vertical Mild Steel Cylindrical Welded Oil Storage Tanks Rules for the construction of pressure vessels; Indian Standard for unfired pressure vessels; British standard specification for unfired fusion welded pressure vessel Code of fabrication, Practice for design, testing and installation, of under-ground/above-ground horizontal cylindrical steel

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
Gas Cylinders	Stagewise / Final Inspection	API 620:2013	storage tanks for petroleum products Design and Construction of Large, Welded, Low-Pressure Storage Tanks
		API 650:2020	Welded tanks for oil storage
		IS 8196:2004	Steel cylinders for compressed gases (atmospheric gases, hydrogen, high pressure liquefiable gases and dissolved acetylene gases)
		IS 15490:2004	Cylinders for on-board storage of compressed natural gas as a fuel for automotive vehicles
		ISO 11119-3:2013	Gas cylinders – Refillable composite gas cylinders and tubes -- Design, construction and testing -- Part 3: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450L with non-load-sharing metallic or non-metallic liners
		ISO 9809:2010	Refillable seamless steel gas cylinders -- Design, construction and testing
		ISO 11439:2013	High pressure cylinders for the on-board storage of natural gas as a fuel for automotive vehicles

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
Pipes [Ductile, Cast Iron, Carbon Steel, Ferrous, Non-Ferrous, Alloy Steel, Seamless & Welded (without or	Stagewise / Final Inspection	ISO4706:2008	Gas cylinders – Refillable welded steel cylinders
		NZS-5454:1989	Standard requirements for lightweight steel automotive compressed natural gas cylinders
		BS EN 13322- 1:2003+A1:2006	Transportable gas cylinders. Refillable welded steel gas cylinders. Design and construction. Carbon steel
		ISO11120:2015	Refillable seamless steel tubes of water capacity between 150 l and 3000 l -- Design, construction and testing
		BS EN 1442:2006 + A1:2008	LPG equipment and accessories. Transportable refillable welded steel cylinders for LPG. Design and construction
		DOT39:2017 + Gas Cylinder Rules:2020 DOT 4BW:1995; DOT4BA:2003	non reusable - non refillable cylinder Code of Federal Regulations-- Welded steel cylinders made of definitely prescribed steels with electric-arc welded longitudinal seam. Including DOT 4BA
		IS 8329:2000	Centrifugally cast (spun) ductile iron pressure pipes for water, gas and sewage

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
with addition of filler wire)]		IS 3589:2001 ASTM A 53:2015 ISO 2531:2009 ASTM A 746:2018 (R:2022) ASTM A 716:2015 ASTM A 74:2015 API 5L, 46 th Edition :2024 IS 1239-1:2004; IS 1239-2:2011, ASTM A 106:2019; ASTM A 333:2018 IS 11556:2005 ASME SEC VIII:2023	Steel pipes for water and sewage Seamless and Welded Standard Steel Pipe Ductile iron pipes, fittings, accessories and their joints for water applications Ductile Iron Gravity Sewer Pipe Ductile Iron Culvert Pipe Cast Iron Soil Pipe and Fittings Specification for line pipe Seamless, Welded Pipes Distillation column Rules for construction of pressure vessels Applicable national & international codes and standards, Client requirements, QAP/ITP
Distillation Columns	Stagewise / Final Inspection		
Heat Exchangers	Stagewise / Final Inspection	IS 4503:1967 TEMA:2023	Specification for shell and tube type heat exchangers The Tubular Exchanger Manufacturers Association

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
		TEMA IS10000:1980 [all parts] ASME Sec IX:2023, ASME Sec V: 2023 ASME Sec VIII: 2023	Tubular Exchanger Manufactures Association- Standard for Design and construction of Heat Exchangers BPVC Section IX-Welding, Brazing, and Fusing Qualifications Non-destructive Examination Rules for construction of pressure vessels
		Client Requirements in the form of QAP mentioning required specification and scope mentioned in this scope. However, the applicable National & International Codes and Standards shall be among those which are either referred in the scope statement or shall be equivalent to the standards described above for the relevant scope category	
IAF Scope 18 Machinery and Equipment Valves	Stagewise / Final Inspection	API 614, April:2022 API 598-2023 11 th Edition IS 9890:1981 IS 778:1984 API 594:2022 API 6FA:2020	Lube Oil System Lubrication, Shaft-sealing and Oil-control Systems and Auxiliaries Valve Inspection and Testing General purpose ball valves Copper alloy Gate, Globe and Check Valves for water works purposes. Check Valves: Flanged, lug, wafer and butt welding. Fire Test Specification for valves

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Pumps	Stagewise / Final Inspection	API 607:2022	Fire Test for quarter turn valve and valve equipped with non-metallic seat.
		API 608:2025	Metal ball valves
		API 609:2021	Butterfly valves
		BS EN12266-1:2012	Testing of metallic valves.
		API 600:2021	Bolted bonnet steel gate valves for petroleum and natural gas industries
		API 602:2022	Compact Steel Gate Valves— Flanged, Threaded, Welding, and Extended-Body Ends
		ASME B16.34:2013	Valves—Flanged, Threaded, and Welding End
		EN 12516:2014	Industrial valves. Shell design strength. Calculation method for steel valve shells
		API 674:2016	Positive Displacement Pumps - Reciprocating
		API 610:2021	Centrifugal Pumps for Petroleum, Petrochemical and Natural Gas
		API 675-July:2021	Positive Displacement Pumps- Controlled Volume for Petroleum, Chemical, and Gas Industry Services
		BIS IS 5120:1977	Technical Requirements For Roto- dynamic Special Purpose Pumps
		API 6D:25 th Edition	Specification for Pipeline Valves

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		Standards / Regulations / Methods / Procedures Number identification with year of publication	Title
Bearings	Stagewise / Final Inspection	IS 6595:2002	Horizontal centrifugal pumps for clear, cold water
		IS 8034:2018	Submersible Pump sets
		IS 9137:2019	Centrifugal, Mixed Flow, & Axial Pumps
		IS 11745:1986	Positive displacement pumps reciprocating
Gaskets	Stagewise / Final Inspection	IS 5120:1977	Roto dynamic special purpose pumps
		IS 13962:1999	Rolling bearings – metric tapered roller bearings
		API 670:2014	Machinery Protection Systems
		IS 11149:2004	Rubber gaskets
Axial Fans, Blowers, Dryers	Stagewise / Final Inspection	IS 2712:1998	Gaskets and packings - compressed asbestos fiber jointing
		ASTM F 104-11:2015	Standard Classification System for Nonmetallic Gasket Materials
		ASTM C-564-1:2015	Rubber Gaskets for Cast Iron Soil Pipe and Fittings
		ASTM D5926 – 15: 2015	PVC Gaskets for Drain, Waste, and Vent, Sewer, Sanitary, and Storm Plumbing System
		IS 4894:1987	Specification for –centrifugal fans
		IS 1710:1989	Specification for pumps — vertical turbine mixed and axial flow, for clear cold water

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Gear Boxes	Stagewise / Final Inspection	IS 6680, IS 3588, AMCA 205:2012 IS 7403:1974 API 613:2022 AIS 037:2004	Railway Carriage Fans; Axial Flow Fans Standard for fan testing Standard worm and helical gear boxes Special purpose gear units for petroleum, chemical, and gas industry services Procedure for Type approval and Establishing Conformity of Production for Safety Critical Components
Centrifuges	Stagewise / Final Inspection	IS 4092-1:2003 ASME Sec VIII:2023 Div-1	Centrifuges of the basket and bowl and vibrating type for use in industrial and commercial application Rules for construction of pressure vessels
Turbines	Stagewise / Final Inspection	IS 1710:2009 IS 15663 (Part-1): 2006 API 612:2020	Specification for pumps — vertical turbine mixed and axial flow, for clear cold water Design and installation of natural gas pipelines — code of practice Petroleum, Petrochemical and Natural Gas Industries-Steam Turbines-Special-purpose Applications
Turbine Generating Sets - Hydro/ Steam	Stagewise / Final Inspection	BS 5514:1996 [all parts]	Reciprocating Internal Combustion Engines

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20MW to 500 MW capacity		ISO 3408-1: 2006	Ball Screws
		Client Requirements in the form of QAP mentioning required specification and scope mentioned in this scope. However, the applicable National & International Codes and Standards shall be among those which are either referred in the scope statement or shall be equivalent to the standards described above for the relevant scope category	
IAF Scope 19 Electrical Equipment Motors	Stagewise / Final Inspection	IS 12615:2011 BS 5000:2006 BS 2613:1957 IEC 60034-1:2022 IS 4029:2010 60034-1:2022 IS11171:1985 IS 2026 Part 1 to 4:2011	Energy efficient Induction Motors Specification for rotating electrical machines of particular types or particular applications Electrical performance of rotating electrical machinery Rotating electric machines – Part- 1: Rotating and Performance Guide for Testing Three Phase Induction Motors Rotating electrical machines Dry type transformer Power transformers
Transformers	Stagewise / Final Inspection		

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Alternators	Stagewise / Final Inspection	IS 12021:2015 IS 2705 Part 1 to 4: 1992 IS 3156: Part 1 to 4: 1992 IEC 60076-1:2011 IEC 60044-1:2003 IS 60034:2022	Control transformers or switchgear and control gear for voltages not exceeding 1000 v a.c. - Specification Current transformers - Specifications Voltage transformers Power transformers Instrument transformers Rotating electrical machines
Energy Meters	Stagewise / Final Inspection	IS 15707:2006; IS 13779:2020; IEC-TC-13 / IEC/TS 60514:1975; IEC/TR 60736:1982; IEC 61358:1996; IEC/TR 62051: 1999; IEC/TR 62051: 2004; IEC 62052: 2003; IEC 62052: 2004; IEC 62053: 2003; IEC 62054: 2004; IEC 62055: 2005; IEC 62056: 2014; IEC 62058: 2008; IEC 62059:2002	Electricity metering equipment, energy meters – testing, calibration, etc
MCC, Junction Boxes, Control Panels, Switch Gears, Manufacture	Stagewise / Final Inspection	IS 13947:2004 IS 2147:1982	Low voltage switch gear and control gear

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of electricity distribution and control apparatus e.g. Switchgear (HT/LT), Panels, PCC, MCC, APFC VFD, CT, PT, Flameproof & Weather proof equipments, Junction Boxes, Insulated Wire and Cables, Lighting, equipments, Push Button Stations and Electrical lamps, Outdoor units and IPMS for Telecom sector, Pressure Gauges, earthing , electrical resistance, Flameproof enclosure, luminaires and electrical installation classification etc.		IS 2147:1982 IS 8623-1:1993	Degree of protection provided by enclosure for low voltage switch gear and control gear. Low-Voltage Switchgear and Control Gear Assemblies, Part 1:

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		IS 12729:2004	Requirements for Type-Tested and Partially Type Common High-Voltage Switchgear and Control gear Standards
		IEC 61439:2023	Low-voltage switchgear and control gear assemblies
		IS 732:2019	Code of Practice for Electrical Wiring Installations
		IS 3072:1975	Code of practice for installation and maintenance of switchgear
		IEC 61439:2023	Low-voltage switchgear and control gear assemblies - Part 1: General rules
		IS 13947-5:2004	Low-Voltage Switchgear and Control gear, Part 5: Control Circuit Devices and Switching Elements, Section 2: Proximity Switches
		IEC 60056:1987	Specification for alternating-current circuit-breakers.
		IS 9921:2012	Alternating Current Disconnectors (isolators) and Earthing Switches for Voltages
		IEC 62271:2011	High-voltage switchgear and control gear
		IS 8623-1:1993	Low-Voltage Switchgear and Control gear Assemblies, Part 1: Requirements for Type-Tested

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		BIS IS 13947-1:1993 (RA 2004) IEC 62271-100,200 :2021 IEC60947-1:2020 IEC 62271-100:2017; IEC-60427:2000; EN 50152-1:2012 + A1:2013 BIS IS 2071-2:1974 (RA 2006) IS2148:2004 EN 837:1998 IS 10322:2014 IEC60079:2015 IS 3043:1987 IS 5572:2009	and Partially Type-Tested Assemblies Specification For Low-Voltage Switchgear And Control gear High-voltage switchgear and control gear - Part 100: High voltage alternating-current circuit- breakers. Low-voltage switchgear and Control gear - Part 1: General rules Circuit Breakers Methods of High Voltage Testing - Part II : Test Procedures Electrical Apparatus For Explosive Gas Atmospheres - Flameproof Enclosures "d". Stainless steel diaphragm pressure gauges Luminaires Part 1 General Requirements and Tests Electrical resistance trace heating -- General and testing requirements Code of practice for earthing Classification of hazardous areas (other than mines) having

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Manufacture of accumulators, primary cells and primary batteries like (UPS, Battery, Battery chargers etc.)	Stagewise / Final Inspection	IEC 60529:1989 +A1:1999+A2:2013	flammable gases and vapours for electrical installation. Applies to the classification of degrees of protection provided by enclosures for electrical equipment
		IS1651:2013	Stationary cells and batteries, lead - Acid type (With Tubular Positive Plates) - Specification
		IS1652:2013	Stationary cells and batteries, lead-acid type with plante positive plates - Specification
		IS6303(Part 4):2023	General requirements and methods of tests for dry cells and batteries
		IEC60896:2011	Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test
		IS13514:2018 IEC61982-4:2015	Secondary Batteries (Except Lithium) for the Propulsion of Electric Road Vehicles Part 4 Safety Requirements of Nickel- Metal Hydride Cells and Modules
		IS 16242: Part 1 : 2014	Uninterruptible Power Systems (UPS) Part 1 General and Safety Requirements for UPS

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Cathodic Protection	Stagewise / Final Inspection	IEC 62040-3:2021	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements
		IEC 60335-2-29:2016	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers
Manufacture of Industrial Process Control Equipment e.g. (PLC, DCS,	Stagewise / Final Inspection	IEC 60086-1:2021	Primary batteries - Part 1: General
		IS 6848:1979	Lead-acid Batteries for Train Lighting and Air-conditioning Services
		BIS IS 1651:1991 (RA 2018)	Specification for stationary cells and batteries, lead-acid type with tubular positive plates
		BIS IS 10918:1984 (RA 2018)	Specification For Vented Type Nickel Cadmium Batteries
		EN 50091-1-2:1998	Uninterruptible Power Systems (ups) - General And Safety Requirements For Ups Used In Restricted Access Locations
		IS13314:1992	Solid state inverters run from storage Batteries
		IS-8062-1:1976	Cathodic Protection – Steel Structures; Buried Pipelines/Structures
		IS-8062-2:2006	
		NFPA 72-2016	National Fire Alarm and Signaling Code

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CCTV, Fire & Gas detection system etc.)		IEC 584:1982 IS11360:1985	Thermocouple Extension & Compensating Cable Specification for Smoke Detectors for Use in Automatic Electrical Fire Alarm System
Manufacture of Optical Fibre Cables, Instruments Cables	Stagewise / Final Inspection Stagewise / Final Inspection	IS/IEC 60794-1-1-2023 IS1554:1988 IS7098 (Part-2):2011 IS9968:2002 IS694:2010 IS 14255:1995 (RA 2020)	Fibre Optics, Fibres, Cables and Devices PVC Insulated (Heavy Duty) Electric Cables Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages from 3.3KV up to and including 33KV Specification for elastomer - Insulated cables: Part 2 for working voltages from 3.3 KV up to and including 33 KV Polyvinyl Chloride Insulated Unsheathed And Sheathed Cables/Cords With Rigid And Flexible Conductor For Rated Voltages Up To And Including 1100 V Aerial Bunched Cables for working voltages upto and including 1100 Volts- specification

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Measuring Instruments Ammeter, Voltmeter Manufacture of electric motors, generators and transformers Manufacture of electricity distribution and control apparatus	Stagewise / Final Inspection	IEC-60099-4, IS-3070 (Part III) IS731:1971 (RA 2016) IEC 60051:2018	Lightning Arrestors Porcelain insulators for overhead power lines with a nominal voltage greater than 1000 V Measuring Instruments Ammeter, Voltmeter.
	Stagewise / Final Inspection	Other Codes , specifications and standards relevant to category	Applicable national & international codes and standards, such as PESO, DMRI, FM, BASSEFA, BIS, OISD Codes, IE Rules, National Building Code, NEMA, EIL, TEIL, ARAMCO, MOZ Specs, etc., and customer requirements, QAP/ITP Electricity distribution and control
	Stagewise / Final Inspection	IS 17036 : 2018; IS 1885:1993 IECPub50(25):1965 IS 7118 : 1973	
		Client Requirements in the form of QAP mentioning required specification and scope mentioned in this scope. However, the applicable National & International Codes and Standards shall be among those which are either referred in the scope statement or shall be equivalent to the standards described above for the relevant scope category	

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IAF Scope 26 Gas Supply 26 A(iii) of NABCB Sub-sector categorization document BCB 503 (O&G) 26 B(iii) of NABCB Sub-sector categorization document BCB 503 (O&G)	Gas Supply- NGPL	Stagewise/ In-service	PNGRB's GSR 808(E) dated 11.11.2009 along with latest amendments, national/ international standards mentioned therein and relevant statutes PNGRB's GSR 612(E) dated 27.08.2008 along with latest amendments, national/ international standards mentioned therein and relevant statutes
	Gas Supply- CGD	Stagewise/ In-service	
IAF Scope 28 Construction Site preparation Building of complete constructions or parts thereof; civil engineering Building installation Building completion Renting of construction or demolition equipment with operator		IS 456:2000 BS EN 13501- 1:2007+A1:2009 Morth -Fifth Edition IS 1786:2008 IS 383-2016	Plain & Reinforced concrete - Code of Practice Fire classification of construction products and building elements. Classification using test data from reaction to fire tests Specification of Road and Bridge works High-strength deformed steel bars and wires for concrete reinforcement Specification of Coarse and Fine aggregate for concrete

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Renting of construction or demolition equipment with operator Site Preparation, Building construction /Civil Engineering, Building Installation, Building completion, Construction of transmission towers (Power and Telecommunication) including stringing activities, Civil Engineering: Roads and Bridges, Audit of building construction	Stagewise / Final Inspection	BS EN - 598:2007 +A1:2009	Ductile iron pipes, fittings, accessories and their joints for sewerage applications. Requirements and test methods
		IS13920:2016	Ductile Design & Detailing RC structures
Building – construction site preparation, completion and installation Road – Bituminous and Concrete RCC reservoirs Pipe Line Laying		IS 1343:2012 IS 11134:1984	Pre-stressed concrete - Code of practice Code of practice for setting out of buildings

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Machinery Foundation	Stagewise / Final Inspection	IS 15916:2011	Building Design and Erection Using Prefabricated Concrete - Code of Practice
		IS 15917:2010	Building design and erection using mixed/ composite construction - Code of practice
		IS 16231 (Part 2) : 2019	Use of Glass in Buildings — Code of Practice Part 2 Energy and Light- Part 1 - General Methodology for Selection Part 2 - Energy and Light Part 3 Fire and Loading
		IS 7740:1985	Code of practice for construction and maintenance of road gullies
		IS 11682:1985	Criteria for design of RCC staging for overhead water tanks
Construction of Transmission Towers (Power and Telecom) – Tower Foundations	Stagewise / Final Inspection	IS 10297:1982	Code of practice for design and construction of floors and roofs using precast inforced / prestressed concrete ribbed or cored slab units
		IS 11384:1985	Code of Practice for Composite Construction in Structural Steel and Concrete

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		IS 11233:1985	Code of practice for design and construction of radar antenna, microwave and TV tower foundations
		IS 4091:1979	Code of practice for design and construction of foundations for transmission line towers and poles
		IS 1080 :1985	Code of Practice For Design And Construction Of Shallow Foundations In Soils (Other Than Raft, Ring And Shell)
		IS 11089:2002	Code of practice for design and construction of ring foundation

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