



**National Accreditation Board  
for Certification Bodies**



*Accreditation Certificate*

**NABCB**

*hereby confirms that*

**IRCLASS Systems and Solutions Pvt. Ltd**

**(Industrial Services Dept.)**

4<sup>th</sup> Floor, New Building, 52 A, Adi Shankaracharya Marg,  
Opposite Powai Lake, Powai, Mumbai - 400072, 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**

<b>Accreditation Certificate No.:</b>	<b>IB 013</b>
Date of Initial Accreditation	: November 01, 2012
Date of Last Renewal	: November 01, 2019
Validity of Accreditation	: October 31, 2023

**July 20, 2021**

**Issue Date**

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

**(Rajesh Maheshwari)**  
**Chief Executive Officer**



# National Accreditation Board for Certification Bodies



## Schedule I

(Scope of Accreditation)

### IRCLASS Systems and Solutions Pvt. Ltd (Industrial Services Dept.)

#### 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
<b>IAF Scope 02</b> Mining & Quarrying Coal Inspection & Sampling from Conveyors, Wagons, Ships, Stock pile and Trucks	Coal Inspection & Sampling at loading and Unloading Sample preparation for coal analysis	IS 436 ; Part – 1; Section; 1964 (R2007)	Methods for sampling of Coal and Coke Part 1: Sampling of Coal Section 1 ; Manual Sampling  Clients QAP ' s / Specifications.
<b>IAF Scope 14</b> HDPE Pipes  UPVC Pipes	Stage wise / Final Inspection	IS 4984 ;2016  IS 4985; 2000 upto amendment 4 dtd March 2012 IS 12818; 2010	Polyethylene Pipes for Water Supply- Specification  Unplasticized PVC Pipes for Potable Water supplies  UPVC pipes for casing/bore well pipes.
<b>IAF Scope 17</b> Basic metals and Fabricated metal products Plates, Pipes	Stagewise/ Final Inspection	ASME SEC II PART A & B-2015 & 2017  IS2062; 2011	Ferrous and Nonferrous Material Specifications  Hot rolled medium & high tensile structural steel.

September 17, 2021  
Issue Date

(Rajesh Maheshwari)  
Chief Executive Officer

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## Schedule I

(Scope of Accreditation)

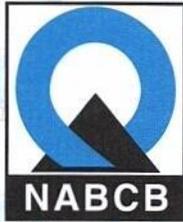
### IRCLASS Systems and Solutions Pvt. Ltd (Industrial Services Dept.)

IAF Scope / Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Tubes		ASME SEC II PART A & B-2015 & 2017	Ferrous and Nonferrous Material Specifications
		IS 1161; 2014	Steel tube for structural purpose – Specification.
		IS 3601; 2006	Steel Tubes for mechanical and general engineering
		API 5CT; 2011	Specification for Casing and Tubing.
		EN 10255; 2004	Non-alloy steel tubes suitable for welding and threading. Technical delivery conditions.
Flanges, Fittings		ISO 2062; 2011	Hot rolled medium & high tensile structural steel.
		ASME SEC II PART A & B-2015 & 2017	Ferrous and Nonferrous Material Specifications
Forgings		ISO 2062 ; 2011	Hot rolled medium & high tensile structural steel
		ASME SEC II PART A & B-2015 & 2017	Ferrous and Nonferrous Material Specifications
Castings		ISO 2062; 2011	Hot rolled medium & high tensile structural steel.
		ASTM (A,B,C,D,E,F,G)-2012,2013,2014,2015 & 2016	American Society for Testing and Materials
Pressure Vessels		ASME Section VIII, Division 1 & 2 –2017	Rule for Constructions of pressure Vessels and design of pressure vessels.
		ASME Sec II: 2015	Specification for ferrous & Non-ferrous material, filler material, welding rods

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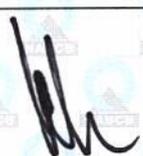
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### IRCLASS Systems and Solutions Pvt. Ltd (Industrial Services Dept.)

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Line Pipes		ASME Sec. V: 2015 ASME Sec.IX : 2015 PD 5500; 2015	Specification for non-destructive examination Welding and brazing specification. British Standard specification for unfired fusion welded pressure vessel.
		IS 2825 ;1988 ASME SEC II PART A & B: 2015 & 2017	Indian Standard for unfired pressure vessels design and construction. Ferrous and Nonferrous Material Specifications
Tanks		ASTM (A,B,C,D,E,F,G)-2012,2013,2014,2015 & 2016 API 1104; Sept 2013 ASME 31.1: 2016 ASME 31.3: 2016 ASME 31.4: 2019	American Society for Testing and Materials Welding Pipe line and related facilities Power Piping Process Piping Pipe line transportation system for liquid Hydrocarbons and slurries Gas Transmission and distribution system Welded Tank for Oil Storage
		ASME B 31.8: 2018 API 650: 2016	
Structural fabrication		IS 803; 1976 API 653 :November 2015 AWS D 1.1: 2015	Tank Alteration, repair, Inspection and reconstruction Above ground storage tank Structural Welding code
Coating		IS 800; 2007 ISO 8501; 2007	General Construction in steel Corrosion Protection of steel structures by painting

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# National Accreditation Board for Certification Bodies *Schedule I*



*(Scope of Accreditation)*

## IRCLASS Systems and Solutions Pvt. Ltd (Industrial Services Dept.)

IAF Scope / Field of Inspection	Type and Range of Inspection	Standards / Regulations / Methods / Procedures	
		Number identification with year of publication	Title
Machined Items Boiler	Stage wise / Final Inspection	ISO 1456; 2009	Metallic and other inorganic coatings
		ASME SECTION 1	Rule for Constructions of fired pressure Vessels
		IBR 1950	Indian Boiler Regulations
			Customer specified Standards / Requirements / Specifications which includes National / International Standards such as ASME-Sec II-Part-A or equivalent
IAF Scope 18 Pumps  Machined Items Compressors	Stage wise / Final Inspection	ISO 5199 ; 2002	Technical Specification for Centrifugal Pump
		ISO 9906 ;2012	Rotodynamic Pumps
		IS 5120; 1977	Technical Specification for Rotodynamic special purpose Pumps.
		API 610: 2010	Centrifugal Pumps for Petroleum, Petrochemical and Natural Gas Industries
		API 674: 1995	Positive Displacement Pumps– Reciprocating
		API 675: 2014	Positive Displacement Pumps
		IS 6595; 2002	Controlled volume
			Horizontal centrifugal pumps for clear cold water- specification
			Customer specified standard /requirement/ specifications are followed
			Reciprocating Compressors for Petroleum, Chemical, and Gas Industry Services
	Petroleum, chemical and Gas service industries –centrifugal compressor		
	Reciprocating Gas Compressors – Technical supply conditions		

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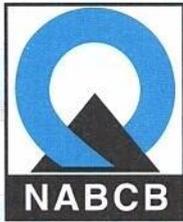
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DG set (Prime Mover)		ASTM D7156 :2017	Test Method for Evaluation of Diesel Engine Oils in the T-11 Exhaust Gas Recirculation Diesel Engine
Turbines		ISO 18888 ; 2017	Gas turbine combined cycle power plants -- Thermal performance tests
		ISO 19859 ; 2016	Gas turbine applications -- Requirements for power generation
		API 612: 2014	Petrochemical and Natural gas Industries -- Steam Turbines- Special purpose application
Valves		API 6D : 2008	Pipeline Valves
		API 598 :2016	Valve Inspection and Testing
		ASME B16.34 :2013	Valves -Flanged, threaded and welding end
		IS 9890 ; 1981	Specification for general purpose ball valves
		API 600 : 2015	Bolted bonnet steel gate valves for petroleum and natural gas industry
		API 602 : 2015	Compact steel Gate valves -- Flanged, Threaded, Welded, Extended body ends.
		API 594 :2017	Check Valves -- Flanged, Lug, Wafer, welded end connections.
		ISO 17292 ; 2015	Metal Ball valves for petroleum, petrochemical and allied industries.
Heat Exchangers		ASME Section VIII, Division 1 & 2 :2017	Rule for Constructions of pressure Vessels
		TEMA 2007	The Tabular Exchangers manufacturers Association
		IS 4503 ; 1967	Specification for shell and tube type heat exchanger

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Material Handling	Design Review	FEM1.001 ; 1998	Rules for the design of hoisting appliances
		Booklet 1 to 9	Rules for the design of cranes part 1
		BS 2573 PART 1 ; 1983	Rules for the design of cranes part 2.
		BS 2573 PART 2 ; 1980	Specification for classification, stress calculations and design of mechanisms
		IS 3177 ; 1999	Code of practice for electric overhead travelling cranes and gantry cranes other than steel work cranes
		IS 4137 ; 2015	Code of practice for heavy duty electric overhead travelling cranes including
IAF Scope 19	Stage Wise / Final Inspection	IS 807 ; 2006	Special service machines for use in steel works
		IS 4594 ; 1968	Design, erection and testing (Structural portion) of cranes and hoists — code of practice
			Customer specified Standards / Requirements / Specifications which includes National / International Standards such as ASME-Sec-III NB,NC,ND, TEEMA or equivalent
Cables		IEC 60092-350 ; 2014	Specification for PVC Insulated (Heavy Duty) Electric Cables Part 1
Motors		IS 1554;1988	Specification for. PVC insulated (heavy duty) electric cables.
		IS 325;2011	Three phase induction motor
		IS 4029;2010	Guide for testing three phase induction motor

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Transformers		IS 2026 part 1 to 5; 2011	Power Transformer
		IEC 60076 (part 1 to 5)	Three-phase and single-phase power transformers
		IS 11171/1985	Specification for Dry Power transformers
		IS 2075 part 1 to 4; 1992	Current Transformer
		IS 3156 part 1 to 4; 1992	Voltage Transformer
Battery Charger / UPS		IS 13369 ; 1992 IS 13369;1992 IS 1651; 2013	Stationary lead acid batteries (with tubular positive plates) in monobloc containers
		BIS IS 10918; 1984	Specification for vented type Ni-Cd batteries.
Panels		IS 10322;2014	Luminaries Part-1 General requirements and tests
		IEC 60079-31:2013	Equipment dust ignition protection by enclosure "t"
		IS 3043 ;1987	Code of practice for earthing
		IS 14786 ; 2000	Guide for testing three phase induction motor
Generator	Stage /Final inspection	IS 13364-1/1992	AC Generators driven by reciprocating internal combustion engines-specification Part 1; Alternators rated upto 20 KVA
		IS 13364-2 /1992	AC Generators driven by reciprocating internal combustion engines-specification Part 2; Alternators rated above 20 KVA and upto 1250 KVA

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Transmission lines / Towers  Switch yard / Sub station		IEC 60034-1: 2004 ISO 8528; 2005 (part 1 to 10)  IS 5613; 1985  IS 14786;2000 IEC 1390:1995	Rotating Electrical Machines Part 1; Rating and Performance  Reciprocating Internal Combustion Engine Driven Alternating Current Generating Sets  Code of Practice for design installation maintenance of overhead power lines Part 1 & 2  High Voltage / Low voltage prefabricated substation  Customer specified standard /requirement/ specifications are followed
IAF Scope 21 GSE/GHE, TTGE (Tools, Testers & Equipment) & Non-Critical Aviation Stores	Final Inspection	HAL requirements in the form of Check sheet, drawings & specifications which are generally based on National and International Codes and standards.	
IAF Scope 22 Other Transport Equipment Railway Wagons and components for railway wagons	Stage Wise / final inspection		Customer requirements in form of QAP, customer specification, approved drawing and RDSO checklist

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IAF Scope 26-D (ii) as per NABCB Sub-sector categorization Document BCB 503 (O&G)  Liquefied Natural Gas Facilities	In-service	PNGRB's F. No. INFRA/T4S/LNG/05, dated 18.01.2018 along with latest amendments, national and international standards mentioned therein and relevant statues	PNGRB's Technical Standards and Specifications including Safety Standards for Liquefied Natural Gas Facilities Regulations, 2018
IAF Scope 27 Water Supply  Survey of Water Bodies	Inspection of Water Bodies-  Visual & Dimensional measurements	As per requirements of Ministry of Jal Shakti (Department of Water Resources, River Development & Ganga Rejuvenation), the River Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016 vide Gazette Notification 3187 (A) dated 07.10.2016 or any other similar government notification  Customer specified standard /requirement/ specifications are followed	
IAF Scope 28 Construction Dams & Canals Bridges (Rail / Road) Roads Building Highways	Stage Wise Final Inspection or audit	IS 456;2000	Plain & Reinforced Concrete - Code Of Practice

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		IS 1786;2008	High Strength Deformed Steel Bars & Wires For Concrete Reinforcement
		IS 516;1959	Methods of test for strength of concrete.
		IS 1199;1959	Methods of Sampling & analysis of concrete
		IS 4926; 2003	Ready Mix concrete
		IS 2911 (part I to IV)	Pile foundation
		IS 383	Specs for fine & coarse agg.
		IS 2386	Methods of test for agg. For Concrete
		IS 269	Ordinary Portland Cement Spec.
		MORTH	Specifications for Roads and Bridges by Min of road and surface Transport
		IRC 37	Design of flexible pavements
		IRC15	Construction of concrete pavements
		IRC 44	Design Mix for concrete PQC Bearing
		IRC 78	Standard specs – roads & bridges – Foundation
		IRC SP 71	Design & Construction Pre-tensioned girders
			Customer specified Standards / Requirements / Specifications which include National / International Standards or equivalent

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IAF Scope 31a (iii) as per NABCB Sub-sector categorization for Inspection Bodies for accreditation Document BCB 503 (O&G)  Petroleum and Petroleum Products Pipelines	In-service	PNGRB's GSR Infra/T4S/P&PPPL/ 01/2014 Dt 12.02.2016 along with latest amendments, National, International standards mentioned therein and relevant statutes	PNGRB's Technical Standards and Specifications including Safety Standards for Petroleum and Petroleum Products Pipelines Regulations, 2016
IAF Scope 34 (ii) of NABCB Sub-sector categorization document BCB 503(O&G):  Entire downstream areas ('a' to 'i') as applicable under item-3 of ERDMP Regulation	In service	GSR 39(E) 18/01/2010, alongwith latest amendment National & International Codes and Standards mentioned therein and relevant Statutes	PNGRB's Codes of Practices for Emergency Response and Disaster Management Plan (ERDMP) Regulations -2010

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