



NATIONAL ACCREDITATION BOARD FOR CERTIFICATION BODIES (NABCB)

Quality Council of India (QCI), 2nd Floor, Institution of Engineers Building, Bahadur Shah Zafar Marg, New Delhi – 110002
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Sub-sector categorization for Inspection Bodies for accreditation under PNGRB Regulations

BCB 503 (O&G)-September'2024



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1. Backdrop:

While accrediting the Inspecting Bodies for ISO/IEC 17020 with respect to IAF Scope Sectors-26 (Natural Gas Pipeline or NGPL & City Gas Distribution or CGD, Liquefied Natural Gas or LNG), 31a (Petroleum & Petroleum Products pipelines or PPPL, LPG Bottling and Over-ground/Refrigerated/Underground and Cavern storage facilities, Petroleum Refineries and Gas Processing Plants, Petroleum Installations (PI)) and 34 (Emergency Response & Disaster Management Plan or ERDMP) with traceability to PNGRB's Technical T4S, IMS and ERDMP Regulations, it has been observed by NABCB that individual IBs are competent in one or more of following:

a) IAF Scope Sectors-26 and 31a:

- **Stage-Wise inspection:** A Third Party Inspection during **various stages of Construction** from beginning till final commissioning, in field of City Gas Distribution (CGD) /Natural Gas Pipeline (NGPL) /Liquefied Natural Gas (LNG) / Liquefied Petroleum Gas (LPG) /Petroleum & Petroleum Products Pipeline (PPPL) /PI (Petroleum, Oil & Lubricants) /Petroleum Refineries & Gas Processing Plants (GPU) / LPG Recovery Unit (LRU) / Retail Outlet (RO).
- **In-service Audit:** A Third-Party Inspection during **Operation of facility**, involving T4S Audits & / or Integrity Management System (IMS) assessment, in CGD/NGPL/LNG/PPPL/LPG /PI/ Refineries & Gas Processing /LPG Recovery Unit / RO under Scope-26 and 31a.
- **Both Stage-Wise Construction inspection & In-service Audit**, specific or in combination, in CGD/NGPL/LNG/PPPL/LPG/PI/ Refineries & Gas Processing /LPG Recovery Unit/ RO.

b) IAF Scope Sector-34 (ERDMP):

- **In-service Inspection** for Verification of ERDMP in downstream areas (“a” to “i” as identified in ERDMP Regulations-2010 of PNGRB (in Singular / Combination/ Entire mid & downstream chain as mentioned in ERDMP Regulation-2010 of PNGRB with amendments if any till date)

Mandatory Aspects (Use of term “ Shall) for Stage-wise Inspection :

- i) Inspecting Body (IB) shall seek Stage-wise inspection accreditation from NABCB only if they intend to carry out Third Party Inspection (TPI) for Construction activities with traceability to concerned PNGRB Regulation or Quality Assurance Plan (QAP) derived by consensus between Client, Contractor and Third Party Inspection Agency (TPIA) prior to commencing Construction inspection.
- ii) The QAP so derived between Client, Contractor & Third Party Inspection Agency (TPIA) shall be traceable to concerned PNGRB Regulation (wherever traceability exists) and national & international Codes applicable to Stage-wise Construction inspection.
- iii) Any Material/Equipment inspection in Oil & Gas shall be considered by NABCB in respective IAF Scope(s) for Mechanical/ Electrical/ Instrumentation/ Civil items.



2. Sub-classification of IAF Scope Sectors (26, 31a and 34)

In view of above, NABCB shall consider following Sub-classification under Scope Sectors 26, 31a and 34):

Scope Sector-26 (Gas Supply): T4S Regulations for CGD, NGPL & LNG and IMS Regulations for CGD and NGPL

26-A: Natural Gas Pipelines Regulations-2009 (Stage-wise Construction & T4S Audit)

26-A(i) : T4S Regulations of PNGRB for Natural Gas Pipelines (Stage-wise Construction inspection)

26-A (ii): T4S Regulations of PNGRB for Natural Gas Pipelines (In-service T4S Audit)

26-A(iii):T4S Regulations of PNGRB for Natural Gas Pipelines (Stage-wise Construction inspection and In-service T4S Audit)

26-B: City Gas Distribution Regulations-2008 (Stage-wise Construction & T4S Audit)

26-B(i) : T4S Regulations of PNGRB for City Gas Distribution (Stage-wise Construction inspection of Steel Mains, PE and PNG)

26-B(ii): T4S Regulations of PNGRB for City Gas Distribution (In-service T4S audit of Steel Mains, PE and PNG)

26-B(iii): T4S Regulations of PNGRB for City Gas Distribution (Stage-wise Construction inspection and In-service T4S audit of Steel Mains, PE and PNG)

26-C: Integrity Management System (IMS) Regulations-2012 & 2013 for NGPL & CGD

26-C(i) : PNGRB Regulations for IMS of Natural Gas Pipelines (In-service Inspection)

26-C(ii): PNGRB Regulations for IMS of City Gas Distribution Network (In-service Inspection)

26-D: Liquefied Natural Gas (LNG) Facilities, Regulations-2018 (Stage-wise Construction & T4S Audit)

26-D(i): T4S Regulations of PNGRB for LNG facilities (Stage-wise Construction inspection)

26-D(ii): T4S Regulations of PNGRB for LNG facilities (In-Service T4S audit)

26-D(iii): T4S Regulations of PNGRB for LNG Terminal facilities (Stage-wise Construction and In-Service T4S audit)

Scope Sector-31a: T4S & IMS for Petroleum & Petroleum Products Pipelines Regulations-2016 & 2021 respectively, T4S for LPG Storage, Handling and Bottling Facilities Regulations-2019, T4S for Petroleum Installations Regulations-2020, T4S for



Petroleum Refineries & Gas Processing Plants Regulations-2023 and Retail Outlet (RO) Regulations-2018:

- 31a-(i): T4S Regulations of PNGRB for Petroleum & Petroleum Products Pipelines (Stage-wise Inspection)
- 31a-(ii): T4S Regulations of PNGRB for Petroleum & Petroleum Products Pipelines (In- service Inspection)
- 31a-(iii): T4S Regulations of PNGRB for Petroleum & Petroleum Products Pipelines (Stage-wise and In-Service Inspection)
- 31a-(iv): T4S Regulations of PNGRB for LPG Over ground/Mounded Storage and Bottling facilities (Stage-wise Construction Inspection)
- 31a-(v): T4S Regulations of PNGRB for LPG Over ground/Mounded Storage and Bottling facilities (In-Service T4S Audit)
- 31a-(vi): T4S Regulations of PNGRB for LPG Over ground/Mounded Storage and Bottling facilities (Stage-wise Construction Inspection and In-Service T4S Audit)
- 31a-(vii): T4S Regulations of PNGRB for LPG Refrigerated Storage and Bottling facilities (Stage-wise Construction Inspection)
- 31a-(viii): T4S Regulations of PNGRB for LPG Refrigerated Storage and Bottling facilities (In-Service T4S Audit)
- 31a-(ix): T4S Regulations of PNGRB for LPG Refrigerated Storage and Bottling facilities (Stage-wise Construction Inspection and In-Service T4S Audit)
- 31a-(x): T4S Regulations of PNGRB for LPG Cavern (Stage-wise Construction Inspection)
- 31a-(xi): T4S Regulations of PNGRB for LPG Cavern (In-Service T4S Audit)
- 31a-(xii): T4S Regulations of PNGRB for LPG Cavern (Stage-wise Construction Inspection and In-Service T4S Audit)
- 31a-(xiii) : IMS Regulations of PNGRB for Petroleum & Petroleum Products Pipelines (In-Service IMS audit)
- 31a-(xiv) : T4S Regulations of PNGRB for Petroleum Installations (Stage-wise Construction Inspection)
- 31a- (xv) : T4S Regulations of PNGRB for Petroleum Installations (In-Service T4S Audit)
- 31a- (xvi) : T4S Regulations of PNGRB for Petroleum Installations (Stage-wise Construction Inspection and In-service T4S audit)



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31a-(xvii) : T4S Regulations of PNGRB for Petroleum Refineries & Gas Processing Plants (Stage-wise Construction Inspection)

31a –(xviii) : T4S Regulations of PNGRB for Petroleum Refineries & Gas Processing Plants (In- service T4S Inspection)

31a- (xix) : T4S Regulations of PNGRB for Petroleum Refineries & Gas Processing Plants (Stage-wise Construction Inspection and In-Service T4S inspection)

NOTE: i) The Inspecting Body (IB) shall specifically mention category of Refining (Refinery/ Gas Processing Unit / LPG Recovery Unit)/ Other type) in the Initial Accreditation Application to NABCB while seeking ISO/IEC: 17020: 2012 accreditation.

IB to refer to Sample template of Inspection Body Scope of Accreditation (Item-3 of this procedure document) for proposing scope to NABCB.

ii) NABCB shall, accordingly, mention the category in Scope Certificate after their process of Office & Witness assessments.

31a- (xx) : T4S Regulations of PNGRB for Retail Outlets for Petroleum, Auto LPG, CNG, LCNG, LNG Dispensing (Stage-wise Construction Inspection)

31a- (xxi) : T4S Regulations of PNGRB for Retail Outlets for Petroleum, Auto LPG, CNG, LCNG, LNG Dispensing (In-Service T4S Inspection)

31a- (xxii) : T4S Regulations of PNGRB for Retail Outlets for Petroleum, Auto LPG, CNG, LCNG, LNG Dispensing (Stage-wise Construction Inspection and T4S In-Service Inspection)

NOTE : i) The Inspecting Body (IB) shall specifically mention the category of Retail Outlet (Petroleum, Auto LPG, CNG, LCNG, LNG Dispensing) in the Initial Accreditation Application to NABCB while seeking ISO/IEC 17020 accreditation.

Scope Sector-34: Emergency Response and Disaster Management Plan (ERDMP) Regulations-2010

34-(i): ERDMP Regulations of PNGRB (In-Service- a/b/c/d/e/f/g/h/i as applicable under item-3 of Regulations)

34-(ii): ERDMP Regulations of PNGRB (In-Service-entire Mid and downstream areas as applicable under item-3 of Regulations)



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3. Sample template of Inspection Body Scope of Accreditation

S. No	IAF Scope Sector Classification Code (Indicative)	Field of Inspection	Type and Range of Inspection	Standards / Regulations /Methods /Procedures		Office(s) where competence of scope exists
				Number identification with year of publication	Title	
1.	IAF Scope-26	Gas Supply – NGPL/ CGD/ LNG with item 26-A/B/C/D (i/ii/iii)	Stage-wise / In-service	<p>PNGRB's GSR 808(E) dated 11.11.2009 along with latest amendments, national/ international standards mentioned therein and relevant statutes</p> <p>PNGRB's GSR 612(E) dated 27.08.2008 along with latest amendments, national/ international standards mentioned therein and relevant statutes</p> <p>PNGRB's Infra/IM/NGPL/1/2010 dated 05.11.2012 along with national/ international standards mentioned therein and relevant statutes</p> <p>PNGRB's Infra/IMP/CGD/1/2013 dated 16.05.2013 along with national/ international standards mentioned therein and relevant statutes</p>	<p>PNGRB's "Technical Standards and Specifications including Safety Standards for Natural Gas Pipelines" Regulations, 2009</p> <p>PNGRB's "Technical Standards and Specifications including Safety Standards for City or Local Natural Gas Distribution Network" Regulations, 2008</p> <p>PNGRB's "Integrity Management System for Natural Gas Pipelines" Regulations, 2012</p> <p>PNGRB's "Integrity Management System for City or Local Natural Gas Distribution Network" Regulations, 2013</p>	



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S. No	IAF Scope Sector Classification Code (Indicative)	Field of Inspection	Type and Range of Inspection	Standards / Regulations /Methods /Procedures		Office(s) where competence of scope exists
				Number identification with year of publication	Title	
				PNGRB's F. No. Infra/T4S/LNG/ 05 dated 18.01.2018 along with national/international standards mentioned therein and relevant statutes	PNGRB's "Technical Standards and Specifications including Safety Standards for Liquefied Natural Gas Facilities" Regulations, 2018.	
2	IAF Scope-31a	Transportation of Petroleum & Petroleum Products by Pipeline, Tank Truck with items 31a (i) to (iii) LPG Bottling, Over Ground/ Mounded / Refrigerated / Cavern Storage and Transport by Tank Truck with items- 31a (iv) to (xii)	Stage-wise / In- service Stage-wise/ In-service	PNGRB's GSR Infra/T4S/P & PPPL/01/2014 dated 12.02.2016 along with national/international standards mentioned therein and relevant statutes PNGRB's F.No. PNGRB/Tech/6-T4SLPG/(1)/2019 dated 15th February 2019 along with 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 PNGRB's "Technical Standards and Specifications including Safety Standards for LPG Storage, Handling, and Bottling Facilities" Regulations, 2019.	
3	IAF Scope-31a	Petroleum Installations With Items – 31a (xiv) to (xvi)	Stage-wise/ In-service	PNGRB's F.No. PNGRB/Tech/7-T4SPI/(1)/ 2022 (P-4116) dated 29 th March'2023 along with latest amendments, national/international standards mentioned therein, and relevant statutes.	PNGRB's Technical Standards and Specifications including Safety Standards for Petroleum Installations) Amendment Regulations,2023	
4	IAF Scope-31a	Petroleum Refineries & Gas	Stage-wise/ In-service	PNGRB's F. No. PNGRB/Tech/8-T4SR&GP/(1)/2023	PNGRB's Technical Standards and Specifications	

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				Number identification with year of publication	Title	
		Processing Plants with items -31 a (xviii) to (xix)		(P-4247) dated 29th March'2023 along with latest amendments, national/international standards mentioned therein, and relevant statutes.	including Safety Standards for Petroleum Refineries and Gas Processing Plants) Regulations, 2023.	
5	IAF Scope-34	Emergency Response & Disaster Management Plan (ERDMP) with items 34(i) /(ii) Note: Name of Mid/ Downstream area(s) to be mentioned	In-service	GSR 39 (E) Dated 18.01.2010 along with latest amendments, national/ international 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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4.0 Amendment Record

<u>Date</u>	<u>Auth. By</u>	<u>Description of Amendment</u>
20 August 2020	NABCB TC	Sub-classification of Scopes as per PNGRB Regulations for LNG and LPG Facilities
09 February 2021	PNGRB	Created new sub-classification for Refrigerated LPG Storage facilities.
31 January 2024	PNGRB	Creation of fresh Sub- classification to incorporate PNGRB Regulations on IMS of PPPL, POL, Retail Outlets, and Refineries & Gas Processing Plants
21 August 2024	NABCB TC	Inclusion of Comments by TC members /PNGRB