



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)-February 2021



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1. Backdrop:

While accrediting the Inspecting Bodies for ISO17020 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) 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 of following:

a) IAF Scope Sectors-26 and 31a:

- **Stage-Wise inspection** ie from pipeline laying to final commissioning during *Construction*, specific or in combinations, in field of Inspection of CGD/NGPL/LNG under Scope-26, Petroleum Products Pipelines or PPPL and LPG Bottling, Transportation & Storage under Scope-31a.
- **In-service T4S Audit** ie during Operation of facility, involving *T4S Audits & / or Integrity Management System or IMS assessment*, specific or in combinations, in CGD/NGPL/ LNG under Scope-26, Petroleum Products Pipelines or PPPL and LPG Bottling, Transportation & Storage under Scope-31a.
- **Both Stage-Wise Construction inspection & In-service Audit**, specific or in combinations, in CGD/NGPL/LNG under Scope-26, Petroleum Products Pipelines or PPPL and LPG Bottling, Transportation & Storage under Scope-31a.

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 combinations or entire mid and downstream chain)

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):

A) 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 (In-service Inspection)

26-D: T4S Regulations-2018 of PNGRB for Liquefied Natural Gas (LNG) Facilities-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)

C)Scope Sector-31a: T4S for Petroleum & Petroleum Products Pipelines Regulations-2016 and T4S for LPG Storage, Handling and Bottling Facilities Regulations-2019: Stage-wise Construction & In-Service T4S Audit:

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)

D) 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 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 on 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 – CGD /NGPL/LNG with item 26-A/B/C/D (i/ii/iii)	Stage-wise / 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 "Technical Standards and Specifications including Safety Standards for Natural Gas Pipelines" Regulations, 2009	
				PNGRB's GSR 612(E) dated 27.08.2008 along with latest amendments, national/ international standards mentioned therein and relevant statutes	PNGRB's "Technical Standards and Specifications including Safety Standards for City or Local Natural Gas Distribution Network" Regulations, 2008	
				PNGRB's Infra/IM/NGPL/1/2010 dated 05.11.2012 along with national/ international standards mentioned therein and relevant statutes	PNGRB's "Integrity Management System for Natural Gas Pipelines" Regulations, 2012	
				PNGRB's Infra/IMP/CGD/1/2013 dated 16.05.2013 along with national/ international standards mentioned therein and relevant statutes	PNGRB's "Integrity Management System for City or Local Natural Gas Distribution Network" Regulations, 2013	
				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.	



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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	
2	IAF Scope-31a	Transportation of Petroleum & Petroleum Products by Pipeline, Tank Truck	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 "Technical Standards and Specifications including Safety Standards for Petroleum and Petroleum Products Pipelines" Regulations, 2016	
		LPG Bottling, Over Ground/ Mounded / Refrigerated / Cavern Storage and Transport by Tank Truck with items-31a (i) to (xii)	Stage-wise/ In-service	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 LPG Storage, Handling and Bottling Facilities" Regulations, 2019.	
3	IAF Scope-34	Emergency Response & Disaster Management Plan (ERDMP) with items 34(i) /(ii) Note: Name of 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)" Regulationss-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