



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) Regulationss-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 Regulationss-2016 and T4S for LPG Storage, Handling and Bottling Facilities Regulationss-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)



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- 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 | <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 F. No. Infra/T4S/LNG/ 05 dated 18.01.2018 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> <p>PNGRB's "Technical Standards and Specifications including Safety Standards for Liquefied Natural Gas Facilities" Regulations, 2018.</p> | |



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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 |