



Petroleum and Natural Gas Regulatory Board

24.02.2025

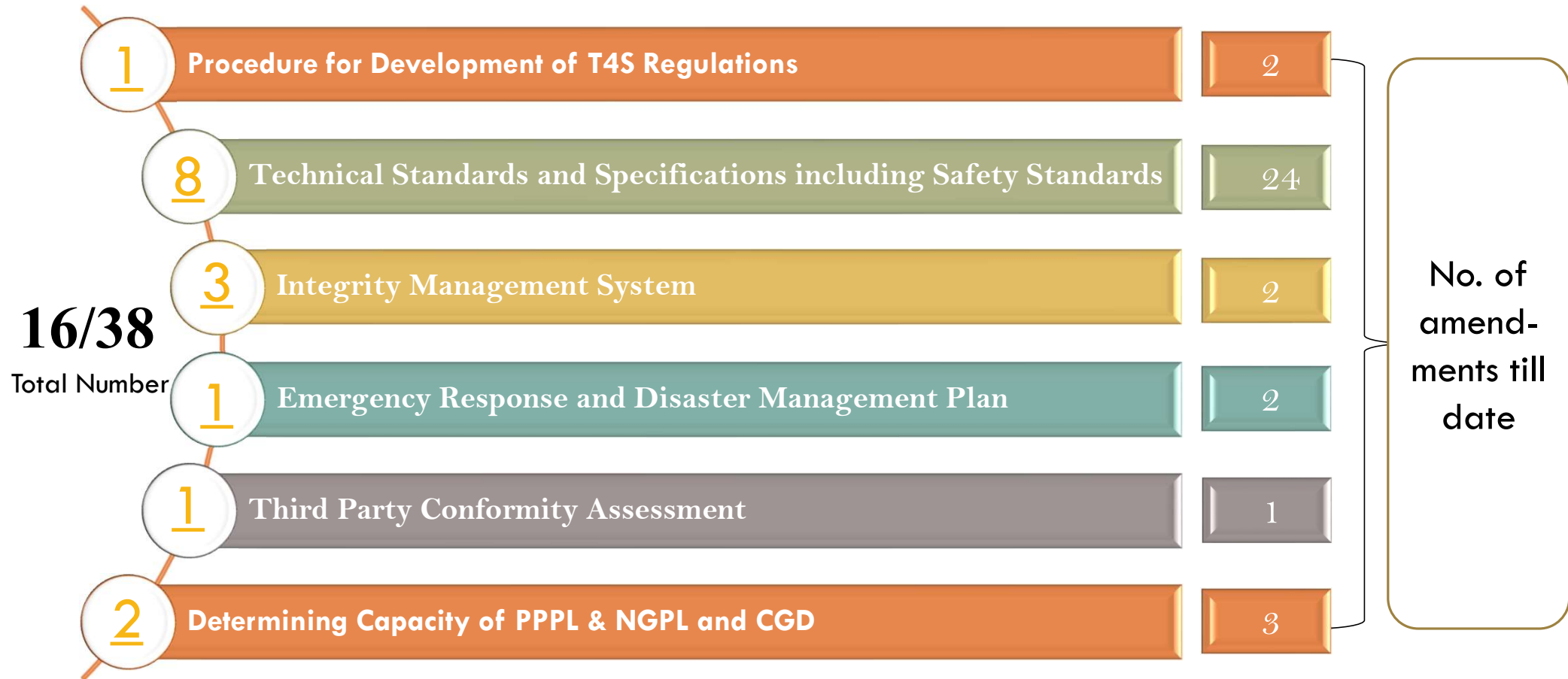
Technical Division : Capacity Building Workshop TPIA

Empanelment of Third-Party Inspection Agencies, Audit Process and Reform

Content

- Notified Technical (PNGRB) Regulations
- PNGRB TPCA Regulation, 2015
- Audit (T4S/IMS/ERDMP) Frequency
- Requirement of a TPIA as per PNGRB - TPCA Regulations, 2015
- Empaneled TPIA – Sector Wise
- Audit Carried Out by TPIA & Audit Cycle
- Audit Report Submission
- Audit Report
- Audit Reform

Notified Technical Regulations



PNGRB - TPCA Regulation 2015



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Petroleum and Natural Gas Regulatory Board (Third Party Conformity Assessment) Regulations, 2015

Regulation Notification Date/Year - 17.04.2015

Amendment - 16.09.2021

No. of Schedule – 02

Schedule 01 - No of clauses: 36

Schedule 02 - No of clauses: 07

Intent:

The intent of these regulations is to specify mechanism for assessment of conformity to various regulations by the entities through Approved Agencies or by the Board on its own including eligibility criteria and procedure for assessment of Third Party Agency for empanelment as Approved Agency.

Audit Frequency – Sector Wise

Sr. No.	Name of Installation	Periodicity for T4S Audit (Years)	Periodicity for ERDMP Review and Certification (Years)	Periodicity for IMS Audit (Years)
1	Refinery & GPU	3	3	-
2	LNG Facilities	3	3	-
3	Natural Gas Pipelines	3	5	3
4	City or Local Natural Gas Distribution	3	5	3
5	Petroleum & Petroleum Product Pipelines	3	5	3
6	POL Installations	3	5	-
7	LPG Storage, Handling and Bottling Facilities	3	5	-
8	Retail Outlets	3	5	-

Requirement of a TPIA as per PNGRB - TPCA Regulations, 2015



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- The TPA shall be a legal entity in India or a reputed international inspecting body having office in India (Legal Entity means, TPIA should have a valid certificate of Incorporation as issued by the Ministry of corporate Affairs).
- The TPA shall have competent inspection having at least 3 years of Operation and Maintenance experience for relevant scope for which empanelment is sought.
- Technical Manager (Min.1), Supervisor/ Inspector ratio shall be 1:5 (Minimum requirement), at least 7 personnel on roll.
- Financial details for last three years, net worth & Annual turn over shall be positive.
- ISO 17020 specifies requirement for the competence of entities performing inspection and consistency of their inspection activities.it is obtained from Accreditation Body i.e. NABCB which is a constituent Board of the Quality Council of India (QCI).
- Fresh Empanelment (Only Considered with the condition that TPA should obtained ISO 17020 within a year of empanelment by PNGRB).
- Renewal of Empanelment (Must have a valid ISO 17020 certificate).
- Fees : **NON-REFUNDABLE**, Fresh Applicant = Rs. 1,00,000/- per sector (initial one year period). Renewal for subsequent years = Rs. 50,000/- per year per sector.
- The TPA Shall be Independent, Impartial, maintain integrity and confidentiality as per section 1-1.6 of (Schedule-1).

Process of TPIA Empanelment

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- Submission of application by TPIA as per PNGRB (TPCA Regulation, 2015).
- Examinations of application by PNGRB as per PNGRB (TPCA Regulation, 2015).

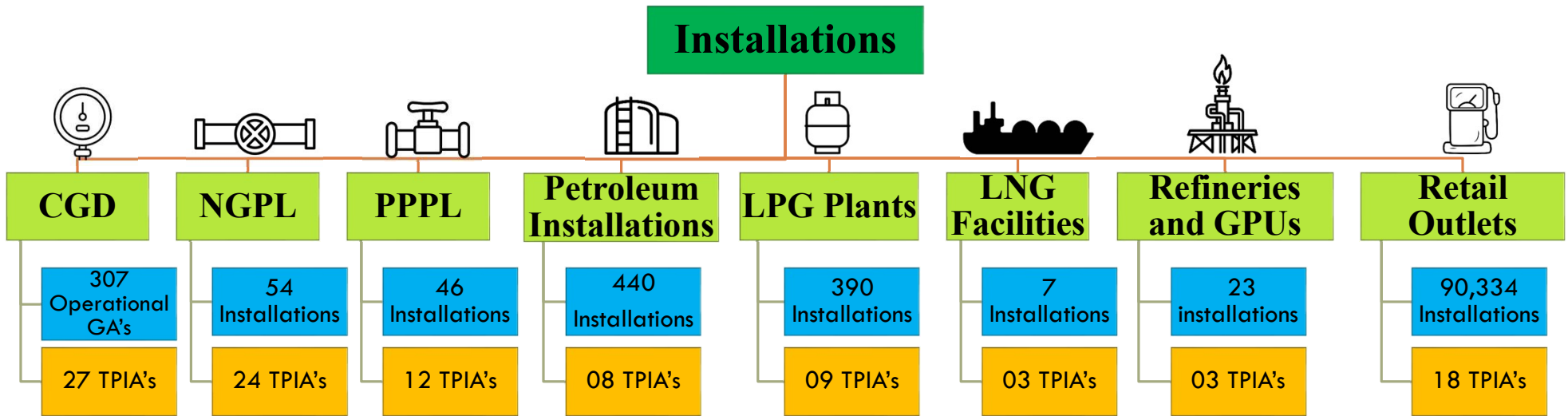
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- If any information is missing, TPA advised to submit the requisite information
- Once the details are received, TPA is called for presentation for reviewing their technical competency and overall credentials.

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- Once the qualification criteria are met, the application are processed under section-58 for final approval.
- If found fulfilled the TPCA Regulation, 2015 requirement, Issuance of empanelment letter.

Installations under Regulations of PNGRB



~ 91,585

Total No of Installations

~664

TPIA Audits Conducted
(FY 2023-24)

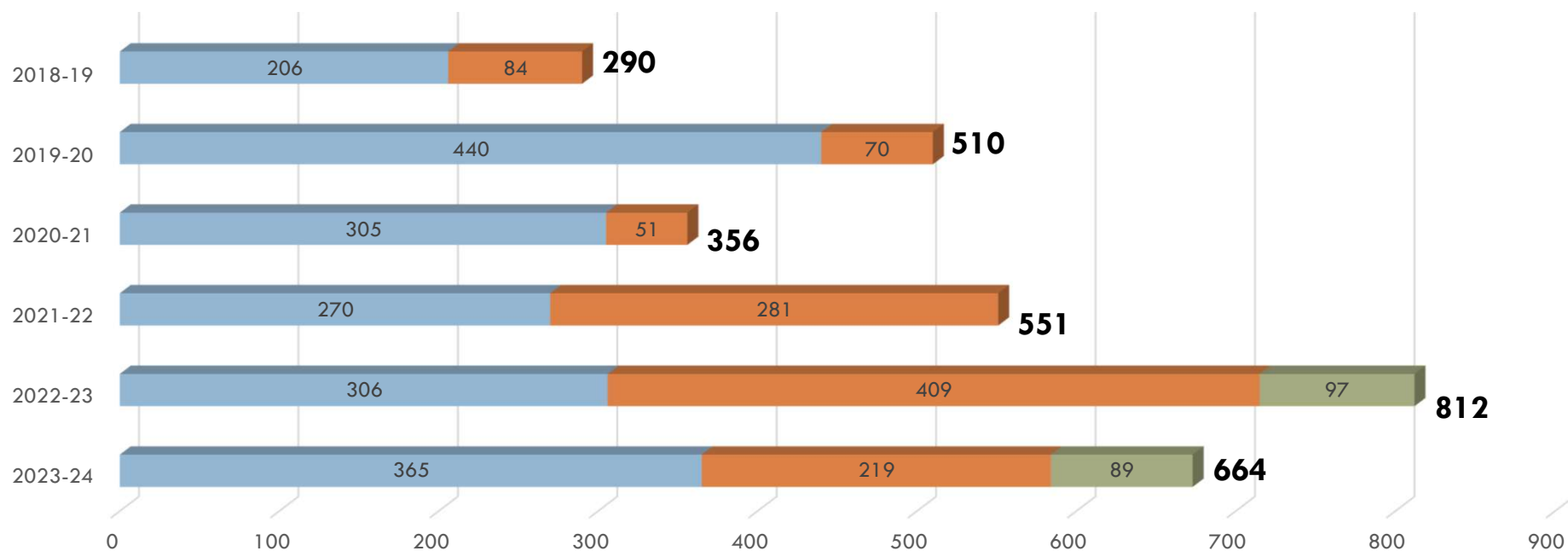
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TPIA's Empaneled

Empaneled TPIA – Sector Wise

Sr. No	Sector	Empaneled as on March 23	Empaneled as on March 24	Empaneled as on January 25
T4S				
1	City Gas Distribution Networks	20	24	27
2	Natural gas pipelines	16	19	24
3	Petroleum product pipelines	12	14	12
5	LNG Facilities	07	09	03
4	LPG	08	13	09
6	Petroleum Installations	07	09	08
7	Refineries	0	01	03
IMS				
1	City Gas Distribution Networks	08	14	15
2	Natural gas pipelines	08	13	13
3	Petroleum product pipelines	02	08	08
ERDMP				
1	ERDMP	14	17	18

Audit Carried Out by TPIA



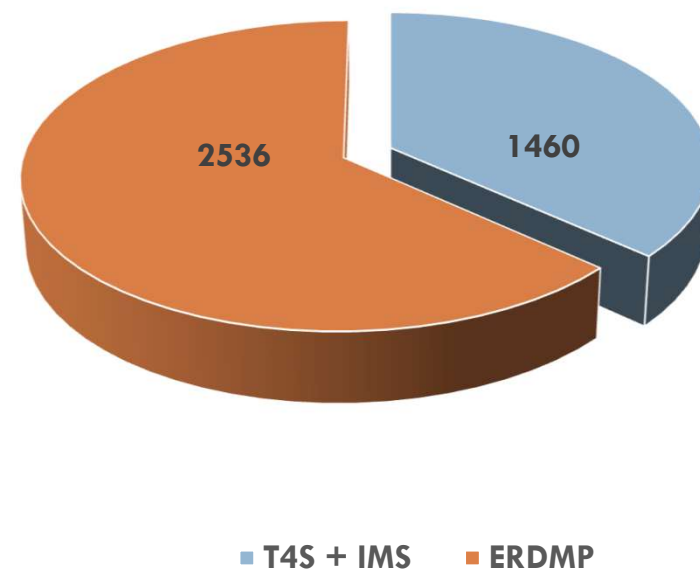
	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
ERDMP	365	306	270	305	440	206
T4S	219	409	281	51	70	84
IMS	89	97				

■ ERDMP ■ T4S ■ IMS

Sector Wise Audit

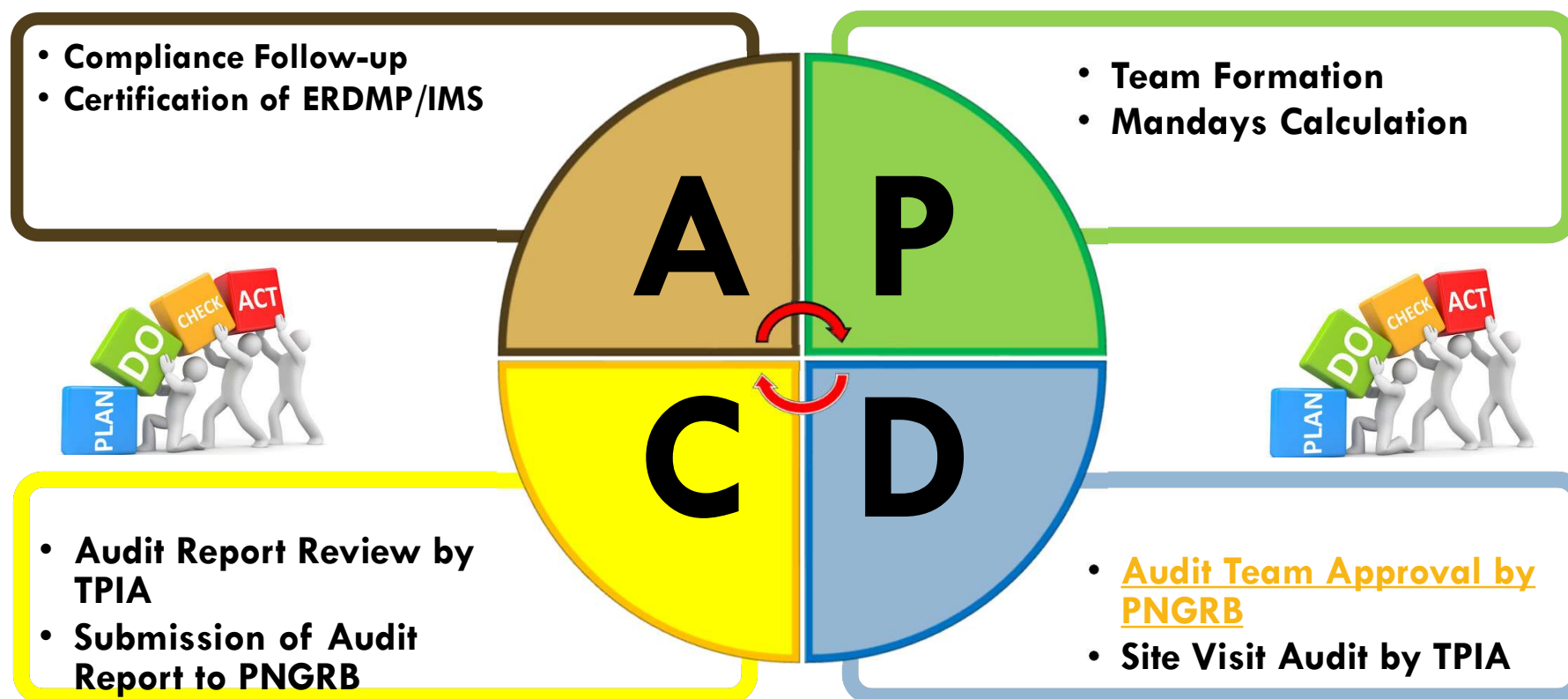
Sr. No	Sector	Total
1	City Gas Distribution Networks	510
2	Natural gas pipelines	239
3	Petroleum product pipelines	148
4	LPG Storage, Handling and Bottling Facilities	262
5	LNG Facilities	6
6	Petroleum Installations	295
Total		1460
7	ERDMP	2536
Grand Total		3996

Sector Wise Audit Carried Out by TPIAs



* Till 31 March 2024

Audit Cycle



Report Submission

ERDMP/IMS :

- Gap Analysis
- Site Audit Visit reports:
 - Flash Audit Report
 - Check List
 - Previous audits compliance status.
 - Opening and Closing meeting.
 - Mock Drill Report
 - Audit Non confirmatory summary report.
 - Duly certified ERDMP/IMS manual with compliance status

T4S :

- All above (as marked)

Certification



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Certificate validity :

- I. In case of first-time certification, the expiry date shall be calculated from the date of audit.
- II. In case of recertification, the expiry shall be calculated from the date of expiry of previous certificate or date of audit whichever is earlier.
- III. In case of combined audit for IMS of NGPL & PPPL, separate certificate shall be issued under respective regulations.

Thank You



PETROLEUM AND NATURAL GAS REGULATORY BOARD

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Updated Mandays Matrix for Site Audit

T4S/IMS						ERDMP									
Sr. No.	Name of Facility/ Installation	Note - Mandays will be calculated on highest of the following			No. of auditors	Minimum Mandays	Sr. No.	Name of Facility/ Installation	Note - Mandays will be calculated on highest of the following			No. of auditors	Minimum Mandays		
		CGS (Nos.)	CNG (Nos. of Station)	PNG (Nos. of Connection)					CGS (Nos.)	CNG (Nos. of Station)	PNG (Nos. of Connection)				
1	City or Local Natural Gas Distribution Networks	a	Less than or equal to 2	Less than or equal to 50	Less than or equal to 30K	Greater than or equal to 3	1	City or Local Natural Gas Distribution Networks	a	Less than or equal to 2	Less than or equal to 50	Less than or equal to 30K	Greater than or equal to 3	6	
		b	Greater than 2 but less than or equal to 4	Greater than 50 but less than or equal to 100	Greater than 30K but less than or equal to 75K				b	Greater than 2 but less than or equal to 4	Greater than 50 but less than or equal to 100	Greater than 30K but less than or equal to 75K			9
		c	Greater than 4	Greater than 100	Greater than 75K				c	Greater than 4	Greater than 100	Greater than 75K			12
2	Natural Gas Pipelines / Petroleum and Petroleum Products Pipelines	Length of Pipeline (In KM)			No of auditors	No of days	Minimum Mandays	2	Natural Gas Pipelines / Petroleum and Petroleum Products Pipelines	Length of Pipeline (In KM)			No of auditors	No of days	Minimum Mandays
		less then or equal to 100			2	2	4			less then or equal to 100			2	1	2
		100 - 500			3	3	9			100-500			2	2	4
		500 - 1000			3	4	12			500-1000			2	3	6
For every additional 250 KM of pipeline 1 additional day to be considered for site visit															
3	Petroleum Installations	Particulars			No of auditors	No of days	Minimum Mandays	3	Petroleum Installations	Particulars			No of auditors	No of days	Minimum Mandays
		POL/AFS 1000KL to 5000 KL or Lube blending plant			3	2	6			POL/AFS 1000KL to 5000 KL or Lube blending plant			2	2	4
		POL/AFS 5000 KL to 30000 KL			3	3	9			POL/AFS 5000 KL to 30000 KL			2	3	6
		POL/AFS Above 30000 KL / Import facility with Jetty			3	4	12			POL/AFS Above 30000 KL / Import facility with Jetty			3	3	9
4	LPG Storage, Handling and Bottling Facilities	Particulars			No of auditors	No of days	Minimum Mandays	4	LPG Storage, Handling and Bottling Facilities	Particulars			No of auditors	No of days	Minimum Mandays
		LPG facilities with storage less than 100MT			3	2	6			LPG facilities with storage less than 100MT			2	2	4
		LPG facilities with storage 100 MT to 3500 MT			3	3	9			LPG facilities with storage 100 MT to 3500 MT			2	3	6
		LPG facilities with storage Greater than 3500 MT / Import Facility with jetty			4	3	12			LPG facilities with storage Greater than 3500 MT / Import Facility with jetty			3	3	9
5	Ref/GPU	Particulars			No of auditors	No of days	Minimum Mandays	5	Ref/GPU	Particulars			No of auditors	No of days	Minimum Mandays
		upto 10 MMTPA			3	3	9			upto 10 MMTPA			2	3	6
		10 to 20 MMTPA			3	4	12			10 to 20 MMTPA			3	3	9
		more than 20 MMTPA			3	5	15			more than 20 MMTPA			3	4	12
6	LNG terminals	Particulars			No of auditors	No of days	Minimum Mandays	6	LNG terminals	Particulars			No of auditors	No of days	Minimum Mandays
		Terminal			3	3	9			Terminal			2	3	6
7	Dispensing Stations	Particulars			No of auditors	No of days	Minimum Mandays	7	Dispensing Stations	Particulars			No of auditors	No of days	Minimum Mandays
		MS/HSD/LCNG/LNG/CNG/ALDS			2	3	6			MS/HSD/LCNG/LNG/CNG/ALDS			2	1	2
		Road length in KM			No of auditors	No of days	Minimum Mandays			Road length in KM			No of auditors	No of days	Minimum Mandays
		less then or equal to 250			2	1	2			less then or equal to 250			2	1	2
8	Road Transportation	Particulars			No of auditors	No of days	Minimum Mandays	8	Road Transportation	Particulars			No of auditors	No of days	Minimum Mandays
		250 -500			2	2	4			250 -500			2	2	4
		Greater than 500 KM			3	2	6			Greater than 500 KM			3	2	6
Mock Drill to be conducted along the route for different scenerios along SH, NH, Ghat road, Hill area, etc.															

Note :

- (i) Above mandays is for site visit audit only
- (ii) ± 5% allowance may be considered in the capacity/nos. of installation/facility while calculating the minimum mandays
- (iii) Mandays for combined T4S and IMS audits may be derived by deducting one manday from actual mandays required for combined T4S and IMS audit ; Mandays for combine T4S and IMS = (actual mandays required for T4S + actual mandays required for IMS) - 1
- (iv) The aforementioned criteria will be implemented for site visits/audits from 1st January 2025



Lead Auditor Designation Criteria

Auditors Eligibility Matrix (Designation wise)			
Verticals	Qualification	Min. Experience Required	Team Leader (Min. Designation)
REF/GPU	B Tech/BE/BSc(Engg.) or equivalent in relevant branch	Minimum 5 years experience in operation and maintenance in the relevant area	Executive Director/Chief General Manager/Sr. VP
POL			General Manager/Deputy General Manager
NGPL			General Manager/Deputy General Manager
CGD			General Manager/Deputy General Manager
LNG			General Manager/Deputy General Manager
PPPL			General Manager/Deputy General Manager
LPG Storage, Handling & Bottling Facilities			General Manager/Deputy General Manager
RO/ALDS/ROAD			General Manager/Deputy General Manager
Note :			
(i) The aforementioned criteria will be implemented for site visits/audits from 1st January 2025			



Standardization of Site Visit Request Format

Audit Approval Format														
Facility/ Installation Details												Total Mandays	Date of Audit	Remarks
Name of Facility/ Installation	CGD			NGPL	PPPL	Petroleum Installations	LPG	Ref/GPU	LNG terminals	Dispensing Stations	Road Transportation			
Capacity of Facility/ Installation	CGS (Nos.)	CNG (Nos. of Station)	PNG (Nos. of Connection)	Length of Pipeline (In KM)	Length of Pipeline (In KM)	Capacity in KL	Storage Capacity in MT	Capacity in MMTPA	Terminal	MS/HSD/LCNG/LNG/CNG/ALDS	Road length in KM			
	-	-	-	-	-	-	-	-	-	-	-	-		
Audit Requisition Details														
S.No	Audit Type	Name of Location	Sector	Auditor's Detail							Experience in Respective Sectors	Position (Lead Auditor/ Associate Auditor)		
	T4S/IMS/ERDMP			Auditor Name	On Roll/Off Roll	Entity	Designation	Qualification						
1														
2														
3														
4														
5														
6														
7														
8														

Request to be submitted for site visit audit well in advance
Attach Brief of Location/ Auditors Resume

