

Amendments, 2020



***Emergency Response & Disaster
Management Plan (ERDMP), Regulations,
2010***

DISASTER MANAGEMENT CONTINUUM



Summary of Amendments

Nos. of Clauses	Nos. of Clauses Amended
31	23

Clause No.	Title/Description
2	Definitions
3	Applicability
4	Scope & Intent
6	Classification of Emergencies
8	Consequences of defaults or non-compliance
10	Pre-Emergency Planning
11	Emergency Mitigation Measures
12	Emergency Response Measures
13	Response Procedures and Measures
14	Emergency Organization & Responsibilities
15	Infrastructure
16	Declaration of on-site and off-site emergency

Clause No.	Title/Description
16	Declaration of on-site and off-site emergency
17	Resources for controlling emergency
18	Demographic information
20	Evacuation
21	Public relations and information to public
23	Reporting of Incident
24	Action after Reporting of Incident by Entity
25	Termination of Emergency
28	ERDMP for Road Transportation
30	Security Threat Plan
31	Miscellaneous

Amendments in Clauses/Sub Clauses

Nos. of Schedules /Checklist /Annexure	Nos. of Amended/ Introduced
9 Schedules	6 Schedules
7 Checklists	3 Checklist
1 Annexure	3 Annexures

Clause No.	Title/Description
Sch I	Schedule of Implementation
Sch III	Basic Requirements of ERDMP
Sch IV	Resource Mobilization
Sch VI	Incident Reporting Format
Sch VII	ERDMP for carrying Petroleum Products
Sch VIII	Resource Mobilisation for Road Transportation Emergencies
Checklist 1	Hazard Identification
Checklist 2	Incident Prevention Measures
Checklist 4	ERDMP Response Measures/Infrastructure
Annexure 1	Material Safety Data Sheet
Annexure 2	Guidelines for Emergency Response Plan w.r.t Construction/Project
Annexure 3	Typical Mock Drill Reporting Format

Clause 2: Definitions

(f) "disaster" means a catastrophe, mishap, calamity or grave occurrence in any area, arising from natural or man-made causes, or by accident or negligence which results in substantial loss of life or human suffering or damage to, and destruction of, property, or damage to, or degradation of, environment, and is of such a nature or magnitude as to be beyond the coping capacity of the community of the affected area.

(af) Project In-Charge means an individual that has ultimate control over the affairs of the project and is duly authorized by the entity.

Also Changes made in definition of incident record register, leak, mutual aid association, Off-site, On-site, Onsite Emergency Plan, Risk Assessment, Transport Emergency Card & Spill.

Clause 3: Applicability

(c) petroleum and petroleum product pipeline

(d) petroleum storage facilities including POL depot, installations and terminals;

(da) Natural gas storage facilities including LNG terminals;

(g) retail outlets dispensing like Petroleum, Auto LPG, LNG, CNG etc.

(h) transportation of petroleum products, LNG, CNG etc. by road;

Clause 4: Scope & Intent

Scope & Intent have been changed to make it meaningful in accordance with ERDMP Regulations.

(2) Note:

1) No two locations will be identical in respect of layout, surroundings, products, storage quantities, meteorological data etc. Therefore, ERDMP will be location specific as per the available resources preferably.

Provided that, in respect of Cross-Country Pipelines, City Gas Distribution Networks, Retails Outlets, Road Transportation, the following methodologies may be adopted with respect to formulation of ERDMP, namely: -

a. The entity can prepare a single ERDMP document of a Cross Country Pipeline. However, location/installation specific information shall be detailed in the document in accordance with regulations. Alternatively, entity can make ERDMP document installation/location wise also.

Clause 4: Scope & Intent

b. The CGD entity can prepare a single ERDMP document for its Geographical Area. However, specific information and mitigation measures w.r.t CNG Stations, Domestic, Commercial and Industrial supplies shall be detailed in the document in accordance with regulations.

c. Entities owning Retail outlets (ROs) shall identify various format for its RO like (Like RO with LPG, RO without LPG, RO in Cities, ROs on Highways or combination of two or more or other like devices) and prepare typical ERDMP in accordance with these regulations for implementation across all ROs of same format and ensure compliance. These documents shall be certified by the authorized personnel of the concerned entity; and

d. For road transportation, entity shall identify the routes, prepare typical ERDMP and share the same with various stakeholders in accordance with regulations.

(3) The entity shall formulate Emergency Plan for Constructions/Projects in accordance with the guidelines (Refer Annexure 2), duly approved by Project In-Charge. For Constructions/Projects in existing installations, the existing ERDMP document should either cover or be modified as per Annexure 2.

Clause 8: Consequence of default or non-compliance

(1a) The Board of the concerned entity, within ninety days of the commencement of these regulations shall appoint one of its directors, who shall be responsible for ensuring compliance to these regulations.

(2) The Board shall monitor the compliance of ERDMP either directly or indirectly by accredited third party through separate regulations on third party conformity assessment.

(4) Mutual Aid Association not responding as per Memorandum of Understanding (MoU) or written agreement on request of assistance shall attract penalty under these regulations as under:- (a) for first default in response, the defaulting entity with the application and its management shall have to submit written explanation to affected mutual aid members –**Omitted**.

Clause 11: Emergency Mitigation Measures

11.3 Health, Safety and Environment Management

The entity shall have an effective Health, Safety and Environment Management System in place to ensure safety during operation and emergencies and this shall include the following, namely: -

(ix) Visitor safety briefing including, do's and don'ts in case of emergency including assembly points and escape routes etc.

Also Changes made in Sub Clauses of 11.3 like Layout, Safety Committee Meeting, Work Permit System etc.

Clause 12: Emergency Preparedness Measures

12.1 (e) Mock drill for On site (Level –I or II) and Off site (Level-III) emergency shall be carried once in three months and twelve months respectively in accordance with Typical Mock Drill Reporting format provided in Annexure -3. Entity shall conduct at least one On site emergency exercise of Level-II during a year.

12.1(f) it is the responsibility of the concerned District Authority to prepare and keep up-to-date an adequate off-site emergency plan detailing as to how emergencies relating to a possible major accident on the site will be dealt with, as per prevailing provisions of Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules,1989 and Disaster Management (DM) Act, 2005, accordingly, entity shall submit the details to the concerned District Authority to conduct the off-site mock drill.

For locations having more than one industry member, the Off-site emergency exercise may be carried out by one industry member by turn in coordination with the concerned District Authority, thus ensuring at least one off-site emergency (Level-III) exercise is conducted at the location every year.

12.1 (h) Each Mock Drill should be recorded with observations and deficiencies within 24 hours. Accordingly, time bound action plan to be prepared for rectifications.

Clause 14: Emergency Organizations and Responsibilities

14.2.5.9 (2) Emergency siren code should be as follows, namely: -

(a) Emergency Level I – The siren code for Level I shall be decided by Entity depending upon the size and complexity of installation.

(b) Emergency Level II - A wailing siren for two minutes.

(c) Emergency Level III - Same type of siren as in case of Level II but the same will be sounded for three times at the interval of one minutes i.e.(wailing siren 2min + gap 1 min + wailing siren 2min + gap 1min + wailing siren 2min) total duration of disaster siren to be eight minutes

Clause 23: Reporting of the Incident

1) All incidents covered under Minor Incident and Near Misses should be maintained by the entity for inspection in the format as specified in Schedule-VI. 'Major' Incident shall be reported to the PNGRB in the format specified and placed at Schedule-VI. The above report should be submitted within 48 hours after occurrence of the incidents. However, First Information Report (FIR) on 'Major' Incident shall be intimated to PNGRB through telephone, email or SMS immediately or but not later than 4 hours of occurrence.

2) An incident shall be treated as 'Major' if any of the following occurs;
(d) loss above Rs. 20.0 Lac

(3) Detailed investigation report of all 'Major' incidents shall be submitted to the Board within 30 days of occurrence along with time bound mitigation plan of recommendations, made during the investigation. In case, any incident subsequently leads to fatality, assessed loss of above Rs. 20 Lac and cumulative man hours lost more than 500 hours. Such incidents shall also be reported as major incidents immediately in prescribed format as placed in schedule-VI.

(4) Quarterly report consisting Summary of Major (including detailed Investigation Report) and Minor incidents and Near Misses (only numbers.) shall be sent to the Board within 30 days of the end of every quarter.

Clause 24: Action after Reporting of Incident by Entity

- (1) After reporting of the incidents to Board, Nodal officer of the Board (head of Technical Standards the specifications and safety group) shall have responsibility of informing all the Members of the Board and shall coordinate with appropriate level in National Disaster Management Authority (NDMA) till normalization of the situation.
- (2) All Major Incidents shall be investigated by the entity through an enquiry committee comprising experts not directly associated with the incident to identify the lapses, shortcomings, establish the causes which establishes the failure and suggest remedial measures to prevent the recurrence of such incident etc. and submit its report to the Board within 30 days of the incident.
- (3) Following incidents shall also be investigated by an enquiry committee constituted by the Board.
 - a) Explosion / blast.
 - b) Fires involving fatality or major fires.
 - c) Pipeline leakages in petroleum, petroleum product or natural gas pipelines as decided by the Board and
 - d) Any other incident as decided by the Board.

Clause 24: Action after Reporting of Incident by Entity

(4) Terms of reference for the enquiry committee shall include:

- a) identify the lapses / shortcomings;
- b) establish the root cause (s) of failure;
- c) suggest improvements / remedial measures to prevent the recurrence of such incidents;

(5) Such enquiry committee shall submit the preliminary report within a week and thereafter, the final report to the Board within 30 days of constitution.

(6) The entity shall take necessary measures to prevent the recurrence of such incidents, and forward the action taken report to be the part of the report of such enquiry committee duly vetted by the board of Directors of the entity to the Board

Clause 30: Security Threat Plan

A detailed action plan on security breach or threat including bomb threat shall be prepared by entity and **mock drill shall be carried out against various scenarios, at least once in a year.**

Clause 31: Miscellaneous

Whenever any deviation from this code of practices is required to be implemented, the entity shall thereafter take approval from Board of the entity for non-conformities and mitigation measures. The said approval along with the compliance report, mitigation measures and implementation schedule shall be submitted to the Board ***within six months.***

Schedule-1

Schedule of implementation of Code of Practice for ERDMP

	Activity	Implementation Time (from the notification date of Codes of Practices for ERDMP)
1.	On-Site Emergency Plan	3 months
2.	Off-site Emergency Plan(submission of information to District Authority)	3 months
3.	Resources in position	6 months *
4.	Accredited Third Party Certification of ERDMP	1 year
5.	Testing and Mock Drills (On-site)	3 months
6.	Testing and Mock Drills (Off-site)	** 12 months

Note:

(1) A copy of ERDMP, duly approved by the Board of Directors of the organizations shall be submitted to the PNGRB.

(2) The periodical review of ERDMP document shall be approved by the authority which has approved the ERDMP document i.e. entity's Board of Directors

Annexures 1- MSDS

Section 1: Identification

Section 2: Hazard Identification

Section 3: Composition/Information of Ingredients

Section 4: First Aid Measures

Section 5: Fire Fighting Measures

Section 6: Accidental Release Measures

Section 7: Handling and Storage

Section 8: Exposure Controls/Personal Protections

Section 9: Physical/Chemical Characteristics

Section 10: Stability and Reactivity

Section 11: Toxicological Information

Section 12: Ecological Information

Section 13: Disposal Considerations

Section 14: Transport Information

Section 15: Regulatory Information

Section 16: Other Information



Material
Safety
Data
Sheets

Annexures 2- Emergency Response Plan during Construction/Project

The Emergency Response Plan shall include the following considerations:

1. Statutory Requirements
2. Pre-Emergency Planning
3. Emergency Mitigation Measures
4. Emergency Preparedness Measures
5. Emergency Response Procedures
6. Emergency Organization and Responsibilities
7. Resources for Controlling Emergency
8. Emergency Recovery Procedure

Annexures 3- Typical Mock Drill Reporting Format

Typical Mock Drill Reporting Format includes:

1. Date & Time of Mock Drill
2. Location
3. Details of Emergency Scenario
4. Details of initiation/activation of emergency
5. Description of the Mock Drill (The narrative of the situation, all actions) including response of emergency team and mitigation actions)
6. Communication and Response of Emergency teams
7. Head Count
8. Time of all Clear
9. Duration of Mock Drill (in Minutes)
10. Observations (including highlight the positives of the drill)
11. Recommendations

Thanks