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Government of Assam

Envisioning A DISASTER RESILIENT ASSAM

Assam Disaster Risk Reduction Roadmap 2030

October 2022



Assam State Disaster Management Authority
Government of Assam

**Envisioning a Disaster Resilient Assam
Assam Disaster Risk Reduction Roadmap, 2030
A publication of the Assam State Disaster Management Authority,
Government of Assam , Assam Secretariat, Dispur-6**

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Envisioning a Disaster Resilient Assam

Assam Disaster Risk Reduction Roadmap, 2030



Assam State Disaster Management Authority
Government of Assam
Assam Secretariat, Dispur-6
October 2022

ড° হিমন্ত বিশ্ব শর্মা
Dr. Himanta Biswa Sarma



মুখ্যমন্ত্রী, অসম
Chief Minister, Assam

MESSAGE

It gives me immense pleasure to present the Assam Disaster Risk Reduction Roadmap, 2030 which aims to create a resilient system for addressing disaster risks and vulnerabilities. Following the historic path shown by the Hon'ble Prime Minister, Shri Narendra Modi through the Prime Minister's 10 Point Agenda during the Asian Ministerial Conference on Disaster Risk Reduction (DRR) 2016, held in Delhi, Assam has undertaken a series of steps in the areas of Disaster Risk Governance in the country. This is evident in the strategic preparedness, response, mitigation and rehabilitation interventions being carried out in the state under the leadership of Assam State Disaster Management Authority reflecting the shift in the paradigm from 'Disaster Management' to Disaster Risk Reduction.

I am also very glad that Assam now has a dedicated budget for implementation of DRR actions through a Resilience Budget Statement. This will create opportunities for different departments to understand risks, strengthen DRR governance and build capacities for a more co-ordinated integration of risk reduction approaches with the different state initiatives.

The Roadmap provides clarity on the major DRR actions to be taken by each department along with the specification of the timelines and their linkage to national and global frameworks. The implementation of the DRR Roadmap would require the co-operation of all the departments, civil society groups, academia, UN agencies and the people of Assam in general.

I congratulate ASDMA for taking the lead to develop this document focussing on the major Sendai Framework priorities. With such a detailed roadmap for the state, I hope that Assam will be able to achieve the goal of becoming a disaster resilient state.

Dr. Himanta Biswa Sarma

Guwahati
Date: 17.10.2022

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MESSAGE

Since the inception of the Assam State Disaster Management Authority, risk governance in the state has improved remarkably well due to the dedicated efforts of the state officials and the co-operation of all stakeholders working in the area of risk reduction and climate change. Now, in order to escalate the vision to make Assam a resilient state, a Disaster Risk Reduction Roadmap aimed toward developing a result oriented comprehensive framework is being developed by the Assam State Disaster Management Authority with the technical support from UNICEF.

The DRR Roadmap, 2030 is a vision document which details out the major actions to be taken by the different state departments to prevent new risks, reduce existing risks and manage other residual risks which are detrimental to the development of Assam. The co-operation of all the stakeholders is very important for achieving the goals envisaged in the roadmap which will eventually make Assam a resilient state.

One of the most remarkable decisions taken by the state in the field of Disaster Risk Reduction is the earmarking of 3 % of non-salary State Budget for implementation of DRR actions. It will provide excellent opportunities to all state departments to implement the Disaster Risk Reduction Actions as detailed in the Roadmap to achieve shared Resilience and attainment of SDG goals.

I express my congratulations to the officials of the Assam State Disaster Management Authority for taking the lead to prepare this historic document which shall guide all the stakeholders in achieving shared resilience in the future.

(Jogen Mohan)

Guwahati

Date



Paban Kumar Borthakur, IAS
Chief Secretary



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MESSAGE

Assam Disaster Risk Reduction Roadmap, 2030 is a comprehensive vision document developed by the Government of Assam. This roadmap is inclusive, multi-hazard oriented and community centric in its approach and principle. It aims to enhance resilience of the whole state against disasters and climate change thereby helping in achieving the Sustainable Development Goals. It will enable stakeholders to take proper actions to strengthen resilience of communities and systems for reducing disaster risks and vulnerabilities.

The DRR Roadmap will act as a vehicle for achieving resilience with a State Platform for Disaster Risk Reduction (SPDRR) chaired by the Hon'ble Chief Minister, Assam and supported by a technology enabled platform for strengthening collaboration and co-ordination. The roadmap is an attempt to bring clarity of roles and accountabilities of various stakeholders in disaster risk reduction. The departmental action plans in the roadmap are strategic and time bound.

I am happy to see such a 'Whole of Society' approach of the roadmap. To make sure that Disaster Risk Reduction Actions and implementation does not get hindered due to lack of resources, the roadmap has identified multiple financing options. Additionally the dedicated resilience budget for implementation of DRR actions will provide opportunities for different departments to take appropriate actions to achieve the targets set in the roadmap. The targets, milestones and indicators of the roadmap are ambitious and speak volume of Government's commitment to reduce suffering of the people who are vulnerable and at-risk of disasters.

I appreciate the leadership of ASDMA for taking such a huge responsibility of bringing different stakeholders together and producing such a detailed vision document. I also appreciate the role of UNICEF as the lead technical partner in the process of development of the roadmap. It is important that all the stakeholders re-affirm their commitment to implement and achieve what has been envisioned.

Government of Assam remains committed to implement the roadmap in its true spirit.


(Paban Kumar Borthakur)

Guwahati
Date



MESSAGE

Assam has been ranked the most climate-vulnerable state in the country as per the district-level climate vulnerability assessment of India (CEEW, 2021). Recurrent disasters particularly floods, landslides, and river erosion disrupt development gains by affecting the population, damaging infrastructure, impacting the continuity of essential services for children and women and livelihoods for communities. These have direct consequences on the rights and well-being of children and young people. The multiplicity of exposure to such impacts has created barriers to development to the extent that achieving Sustainable Development Goals would be unrealistic without addressing complete dimensions of risks and uncertainties.

Assam State Disaster Management Authority (ASDMA), Government of Assam has developed a strategic roadmap that will guide multi-sectoral initiatives for achieving resilience and SDGs 2030. UNICEF collaboration with the ASDMA is guided by the Core Commitments for Children in Humanitarian Action, Risk-Informed Programming approach and its commitment under Sendai Framework for Disaster Risk Reduction (SFDRR).

The development of the Disaster Risk Reduction (DRR) Roadmap has been a consultative and inclusive process, through engagement with multiple stakeholders. The principles guiding the approach are inclusion, equity, and gender so that 'no one is left behind'. This speaks to the commitment of the Government of Assam to ensure equitable and sustainable results for affected communities. The inclusion of a multi-window funding mechanism and tools for monitoring and evaluation enriches this document.

The Assam Cabinet has approved 3 percent of the State's non-salary, non-pension, and non-wages budget for implementing the DRR Roadmap. This has expanded the fiscal space for disaster preparedness and response

For us at UNICEF Assam, the DRR Roadmap is aligned to our global priority to ensure every child now, and in the future, has their rights realized by being protected from, and prepared for, the impacts of climate change, and water insecurity.

I wish the Office of the Chief minister of Assam and the ASDMA the very best in this endeavor which puts Assam clearly ahead in DRR related actions. UNICEF Assam remains committed as a technical partner to ASDMA to action the DRR roadmap.



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Acknowledgements

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The Assam Disaster Risk Reduction Roadmap, 2030 is a product of years of perseverance, deliberations, hard work and commitment shown by the stakeholders involved in its making. After the approval of the initial concept note of the roadmap by the State Executive Committee (SEC) of ASDMA during its 37th meeting held on 8th October 2018, multiple consultations were organized bringing participants from different government departments and civil society organizations to discuss and finalize the structure, skeleton and contents of the Roadmap. We acknowledge the efforts of all the stakeholders who have provided their inputs during the design.

ASDMA expresses its gratitude to the Hon'ble Chief Minister of Assam for his continuous support during the making of the roadmap and the Hon'ble Minister, Revenue and Disaster Management for his valuable guidance and inputs. We are also grateful to all the Hon'ble Ministers of the different departments for supporting us in the noble endeavour to allocate resources for the smooth implementation of the roadmap. We appreciate the different department heads and officers who were engaged in the continuous consultative process and who provided us all the required information to develop the baseline data required for setting the milestones.

ASDMA truly appreciates the active involvement of UNICEF, Guwahati which provided all the necessary technical support in the development of the Roadmap right from the beginning. Valuable inputs were received from different civil society organization, academicians and professionals working in the field of Disaster Management. We truly acknowledge the efforts of each and every stakeholder involved in the evolution of the roadmap. We also acknowledge the efforts of the previous Chief Executive Officer of ASDMA, Shri M.S. Manivannan who played a pivotal role in developing the idea of the roadmap.

A policy document like the Assam DRR Roadmap 2030 is a product of team work continuously working to make Assam a resilient state. We express our gratitude to each and everyone who believes in a society free from disasters and wishes to contribute to a resilient Assam, Let us all join hands together to achieve the goals of the Assam DRR Roadmap 2030.

Gyanendra Tripathi
Gyanendra Dev Tripathi, IAS

Guwahati

Date : 15.10.2022



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Executive Summary

With increasing frequency, intensity and unpredictability, disaster risks are becoming more dynamic than ever before. This is leading to more men, women, girls, and boys getting affected and causing significant adverse impact on the economy due to infrastructure damages. According to a study by the Ministry of Home Affairs, Government of India, the state of Assam is ranked 15th among the Indian states and union territories in terms of total population, while it is ranked 8th in the composite disaster risk index among states and union territories in India. Specific to hazard index, Assam is ranked 1st in earthquake risk index while 2nd in flood risk index as per the study. Due to floods, which is the most visible risk, affected 39,50,065 (3.9 million) people annually while 4,58,041 (0.45 million) people annually took shelter in relief camps between 2012-20 in Assam. As per baseline data, Assam suffered an annual average economic loss of Rs.1186 crore per year between 2010-20.

Post-2015, international agreements such as the Sendai Framework for Disaster Risk Reduction (SFDRR), Sustainable Development Goals (SDGs), and Paris Climate Agreement, and national initiatives such as the Prime Minister's Ten Point Agenda on DRR, infused a new energy and direction towards Disaster Risk Reduction, Sustainable Development and Climate Change Adaptation. However, there was still a need for the state of Assam to contextualize these frameworks to address the local disaster risks and integrate them in policy and practice. With this background, the Assam State Disaster Management Authority (ASDMA) initiated the process to develop the Disaster Risk Reduction Roadmap for the state of Assam in 2018.

The DRR Roadmap for Assam aims at preventing new risks, reducing existing risks and managing residual risks thereby reducing losses and impacts of disasters in the state of Assam. Towards this aim, the Roadmap will accomplish the following objectives:

- Promote policy coherence relevant to disaster risk reduction, such as sustainable development, gender equity, poverty reduction and climate change, particularly with the SDGs and the Paris Climate Agreement, Prime Minister's Ten Point Agenda for DRR and National Disaster Management Plan of India, 2019.
- To establish realistic targets in alignment with Sendai Framework for Disaster Risk Reduction (SFDRR) for reduction of losses and impacts.
- To set realistic and feasible actions across short, medium, and longer timescales in alignment with

the four priority areas of SFDRR for achieving the defined targets with a focus on most vulnerable groups including women, children, differentially able, families living below poverty line.

- Identify strategic opportunities for stakeholders (Government, Civil Society Organizations, Academic Institutions, Private Sector and UN Agencies) to coordinate and collaborate for disaster risk reduction actions.
- To establish a multi-stakeholder mechanism to follow-up, periodically assess and publicly report on progress.
- To estimate the average sector-wise losses and impacts due to disasters in the state of Assam from 2011 onwards based on available data.

The guiding principles for the Assam DRR Roadmap are:

- Building on existing governance system
- Integrated all hazard approach
- Multi-stakeholder orientation to DRR outcomes
- Coherence and Convergence
- Do No Harm
- Equity and Inclusion
- Resilient Development

Departments were guided to develop their Departmental Action Plans with short, medium, and long-term actions, supported by relevant stakeholders. These actions are then aligned to the four priorities under the SFDRR, which are:

- Priority 1: Understanding disaster risk
- Priority 2: Strengthening disaster risk governance to manage disaster risk
- Priority 3: Investing in disaster risk reduction for resilience
- Priority 4: Enhancing disaster preparedness for effective response, and to Build Back Better in recovery, rehabilitation, and reconstruction

The action plans are organized into thematic groups based on relevance of their functions and contribution to results. There are seven such thematic areas as follows:

- 1. Resilient Social Sector Services and Infrastructure:** In this theme, the stakeholders will focus on ensuring uninterrupted access to and resilient basic social services such as water, sanitation, food, health, and housing. Departments such as Health, Social Welfare, Public Health Engineering, Education (Elementary, Secondary, Higher), Panchayat & Rural Development, etc. are placed in this thematic group.

2. **Resilient Critical Infrastructure:** In this theme, the stakeholders will focus on minimising disruption to the resources and structures which are critical for the society and economy to function optimally such as electricity, energy, telecommunication, industries, etc. Departments such as Power, PWD, Water Resources, Transport, Environment & Forest, etc. are placed in this thematic group.
3. **Resilient Cities and Towns:** In this theme, the stakeholders will focus on amenities such as water, housing, roads, public spaces, etc. in cities and towns that can better handle disasters, absorb the impact of economic, environmental, and social hazards. Departments such as Guwahati Development, Urban Development and Cultural Affairs are placed in this thematic group.
4. **Resilient Livelihoods:** In this theme, the stakeholders will focus on livelihoods that can quickly recover from disasters, absorb the impact of economic and environmental hazards, and promote people's well-being and prosperity. Departments such as Agriculture & Horticulture, Animal Husbandry & Veterinary, Fishery, Tourism, Irrigation, etc. are placed in this thematic group.
5. **Resilient Emergency Response Systems:** In this theme, the stakeholders will focus on critical life-saving response systems, early warning, search and rescue, first-aid, fire, and police services. A combined Action Plan for key Departments, ASDMA, DDMA, NDMA, IMD, CWC, NESAC, UN Agencies, CSOs, Private Sector, etc. has been proposed in this thematic group.
6. **Resilient Recovery and Building Back Better:** In this theme, the stakeholders will focus on post-disaster recovery measures to reduce vulnerability to future disasters, build resilience to address physical, social, environmental, and economic vulnerabilities and shocks. A combined Action Plan for Revenue & DM Dept. with support from Finance Dept., Academic Institutions, CSOs, etc. has been proposed in this thematic group.
7. **Shared Resilience and Ensuring Results:** In this theme, the stakeholders will focus on creating an enabling environment through legal amendments, new policies, directives, and financial commitments. In addition to identifying the available sources of funding for DRR activities proposed by the Departments in their Action

Plans, an Action Plan for the Finance Department has also been proposed in this thematic group. To ensure a dedicated resource flow for implementing the DRR Roadmap by stakeholder departments, the Assam Cabinet has approved the proposal for allocating 3 percent of State's budget (non-salary, non-wages, non-pension).

To support the stakeholders in the implementation of the DRR Roadmap, existing and proposed institutional mechanisms have been mapped and listed. Some of the existing institutional mechanisms are State Executive Committee of ASDMA, Departmental Apex Committees/ Statutory Bodies, UN Agencies, Civil Society Organisations, Private Sector Confederations, etc. The proposed institutional mechanisms are Implementation Support Unit, and State Platform for DRR including a technology platform. Additional Missions and Programs have been proposed to supplement implementation of action plans under various thematic areas. Some of the proposed Missions and Programs are:

- Livelihood Resilience Mission
- Urban Resilience Mission
- Chief Minister's Comprehensive School Safety and Security Program
- Chief Minister's Health and Nutrition System Resilience Program
- Chief Minister's Resilient Gaon Panchayat Program

In order to monitor the progress of the actions and evaluate the achievements of the Assam DRR Roadmap, specific Targets, Milestones and Common Measurable Indicators have been developed in line with the seven targets under the SFDRR, which are:

1. Reducing Disaster Mortality
2. Reducing People Affected
3. Reducing Economic Loss
4. Reducing Infrastructure Damage
5. Increase DRR Strategies
6. Increase Cooperation
7. Increase Access to Early Warning Systems & Disaster Risk Information

An online reporting platform will be developed in which Departments are expected to report against their Action Plans at pre-defined regular intervals. An Annual DRR Roadmap Status Report will be produced by the DRR Roadmap Implementation Support Unit. In order to ensure quality in the processes related to development of plans and proposals and later in the reports submitted by stakeholders, a checklist has been developed which will be used to evaluate, based on various parameters, the plans/proposals/reports related to the implementation of the DRR Roadmap.

1. Introduction

1.1 Background

Disaster risk landscape is changing globally with increasing frequency, intensity, and unpredictability, putting more and more men, women, girls, and boys exposed to harm. COVID-19 pandemic highlighted the emerging reality of diversified risks at a scale never seen before and as such tested the years of gains made to strengthen disaster resilience across the globe. It also highlighted the complex nature of interaction between different hazards requiring differential response.

Post 2015 framework agreements in the fields of disaster risk reduction, sustainable development and climate change have reiterated the importance and commitment towards an integrated approach promoting resilient and sustainable development. However, localization and translation of this understanding and commitment demands an agile, responsive, and flexible approach to policy and practice at all levels.

Assam is the 15th most populous state in the country while it is ranked 8th in the composite disaster risk index among all states and union territories. Specific to hazard index, Assam is ranked 1st in earthquake risk index while 2nd in flood risk index as per the recent study conducted by Ministry of Home Affairs, Gol and UNDP¹.

Because of the exposure to multiple hazards, and other drivers, and determinants of risk, Assam experiences varied scale of losses and impacts every year. Flood, which is the most visible risk, affected 39,50,065 (3.9 million) people annually while 4,58,041 (0.45 million) people annually took shelter in relief camps between 2012-20². Floods result in significant economic losses and costs incurred to recover from the impact of floods. Baseline data shows that in the year 2019-20, economic losses were Rs. 3266 Crores, which was 0.87% of Assam's Gross State Domestic Product³ (GSDP) for the same year, highest for a year in the 2011-20 decade.

Similarly, other hazards like erosion, thunderstorms, landslides, hailstorms, etc. have also rendered damages at varied scales. Projections related to climate change indicate an increase in extreme rainfall days, flooding in newer areas and extreme temperature events; all of which will contribute towards an upsurge in complexities in near future.

COVID-19 has further highlighted the significant public health dimension of the disaster risk profile of the state which has so far been dealing with small scale outbreaks of Dengue and JE/AES and other diseases. Reference to emerging risks have been made in many projections

related to climate change/variability and environmental degradation. COVID-19 is the biggest and the most devastating example of multifaceted impact of disasters that becomes worse when hazards overlap with one another.

Assam has been a forerunner among provincial governments across the globe to adopt a localized and contextualized strategic approach towards achieving sustainable development goals. While concentrated efforts are being made towards implementing the local strategic approach to SDGs, it is equally important to look at the translation of strategic coherence for resilient development. There is a visible convergence of global agenda(s) offering historic opportunities to support vulnerable, fragile, and crisis-affected communities to achieve the 2030 Development Agenda and building resilience of such communities, livelihoods, and ecosystems to shocks and stresses. Same opportunity towards aligning global agendas (standards for action) and local knowledge can lead to strengthening of existing systems and state and local capacities to deal with disasters and climate change as well as regeneration of degraded ecosystems. This should help address the rising direct and indirect losses and impacts due to disasters and climatic extremes upon various development indicators to supplement and complement the efforts towards sustainable development.

1.2 Rationale for Assam Disaster Risk Reduction Roadmap

As losses and impacts related to disasters and climatic extremes continue to rise, the need for having a concerted and result oriented strategic approach is apparently non-negotiable. Assam has made substantive progress in overall disaster risk governance with investments to strengthen disaster management planning at state and district levels. However, the results of such plans, which are mostly done for an annual cycle, are difficult to measure in terms of reduction of losses and impacts.

Therefore, it is important to have a strategic framework to which the multi-sectoral plans can contribute. The Assam Disaster Risk Reduction Roadmap is envisaged to be one such state level strategic framework that delineates a common vision based on an understanding of disaster risk and backed by actions across different timescales, considering the short- and mid-term while simultaneously embracing a long-term perspective to prevent the creation of newer risks, reduce existing risks and recover from disasters and strengthen economic, social, health and environmental resilience.

The Sendai Framework for Disaster Risk Reduction (SFDRR), specifically 'Target E' of the framework, calls to

1. MHA and UNDP (2019), Disaster Risk and Resilience in India - An Analytical Study (<https://www.ndmindia.nic.in/images/pdf/Disaster%20Risk%20and%20Resilience%20in%20India.pdf>)
2. Baseline Report for Assam Disaster Risk Reduction Roadmap, 2021-30
3. Source: PRS Legislative Research (<https://prsindia.org/budgets/states/assam-budget-analysis-2019-20>)

“substantially increase the number of countries with national and local disaster risk reduction strategies”. While the DRR Roadmap is intended to specifically contribute towards achieving this target, it also contributes towards realization of multiple SDGs specifically SDG Goal 1 (Target 1.5), Goal 11 (Target 11.5 and 11b), and Goal 13 (Target 13.1).

Besides, the Assam DRR Roadmap is also envisaged as the strategic instrument to deliver on the Prime Minister’s 10 Point Agenda which was outlined by honorable Prime

Minister of India during the Asian Ministerial Conference on Disaster Risk Reduction 2016, held at Delhi. The DRR Roadmap is a response to the resolutions adopted in the Delhi Declaration adopted during AMCDRR 2016 particularly the call to ‘**Pursue with a sense of urgency the paradigm shift from disaster management to disaster risk reduction**’⁴. The following table outlines the relevance and contribution of the DRR Roadmap towards delivering on specific agendas:

PM’s 10 Point Agenda ⁵	Contribution and Relevance of the DRR Roadmap
Agenda 1 - All development sectors must imbibe the principles of disaster risk management.	The DRR Roadmap brings an umbrella of different themes to understand different risks and their impacts so far and accordingly guidelines setting up of action agenda to address the impact on specific sector and the lead department. The implementation of department wise action plans desegregated by timescales and relevance will enable holistic application of disaster risk management principles as per the priority areas identified under SFDRR by specific sectoral department.
Agenda 2 - Risk coverage must include all, starting from poor households to SMEs to multi-national corporations to nation states.	The DRR Roadmap has identified the existing risk insurance schemes relevant to specific actions in the departmental action plans which will assist the departments in prioritizing necessary steps to increase the risk insurance coverage. The DRR Roadmap has also listed actions to be taken towards exploring the risk insurance products for the weather and climate related disasters as well as for the critical infrastructure in the state.
Agenda 3 - Women’s leadership and greater involvement should be central to disaster risk management.	The process to develop DRR Roadmap involved intensive stakeholder consultation from up to the last mile (Revenue Circle level as the last administrative unit for R&DM department). Focus has been levied on participation of women and children and specific actions/recommendations raised by them have informed the various strategic actions across thematic and sub-thematic areas. Through an inclusive approach, the actions will enable involvement and leadership of women at different levels of the Roadmap as well as actions will contribute towards building their agency, capacity, and networks to achieve thematic priorities.
Agenda 4 - Invest in risk mapping globally to improve global understanding of Nature and disaster risks.	The DRR Roadmap has emphasized actions towards studies and research to understand the nature and severity of current as well as future disaster risks. The Departments are going to undertake multi-hazard risk assessments and mapping of vulnerable areas and infrastructure in order to mitigate and prepare for the disaster risks. This will also contribute towards achieving the Sustainable Development Goals (SDGs).
Agenda 5 - Leverage technology to enhance the efficiency of disaster risk management efforts.	While use of space-based technologies, GIS, use of UAV, etc. are already being explored and used in the state, the DRR Roadmap brings in specific sectoral needs and actions across timescales which can be achieved using technology. Technology driven low cost and no-cost actions have been prioritized and thematic areas have been clearly identified where available and emerging technologies will be used. Data driven systems to track losses will be used. An integrated technology platform will play a major role in reporting, monitoring, and reviewing progress of the DRR Roadmap in the state.

4. New Delhi Declaration – 2016 adopted in the Asian Ministerial Conference on Disaster Risk Reduction (AMCDRR) 2016 ADOPTED on 5 November 2016, in New Delhi, India <https://www.unisdr.org/2016/amcdrr/wp-content/uploads/2016/11/Final-NEW-DELHI-DECLARATION-05-November-2016.pdf>

5. Prime Minister’s 10 Point Agenda outlined during AMCDRR 2016 <https://ndma.gov.in/Governance/PM-10-Agenda>

<p>Agenda 6 - Develop a network of universities to work on disaster-related issues.</p>	<p>Academia has been an important stakeholder during the consultative process at various levels. The Roadmap is also informed and benefitted from the work done by various academicians across thematic areas. Further, the Roadmap envisages a strong linkage between academic research and field practice in the field of DRR. The various thematic areas have identified DRR actions that will be undertaken by and with universities and higher education institutes from within and outside the country. Further the DRR Roadmap implementation will bring universities working in the state to contribute together to achieving relevant milestones.</p>
<p>Agenda 7 - Utilize the opportunities provided by social media and mobile technologies for disaster risk reduction.</p>	<p>The DRR Roadmap also builds on the realization that social media and mobile technologies can play a very important role in risk communication and community engagement. Relevant actions have been included in the thematic action plans to ensure optimum utilization of social media resources and mobile technologies for achieving resilience.</p>
<p>Agenda 8 - Build on local capacity and initiative to enhance disaster risk reduction.</p>	<p>The DRR Roadmap process ensured that local risks and priorities are captured from the perspective of multiple stakeholders from districts and up to Revenue Circle level. The process also ensured that the learning, experiences, and recommendations of duty bearers across the governance structure within the state is considered. Further, the strategic action plans across thematic and sub-thematic areas put focus on strengthening local capacities at district and sub-district level to strengthen resilience of communities and systems.</p>
<p>Agenda 9 - Make use of every opportunity to learn from disasters and, to achieve that, there must be studies on the lessons after every disaster.</p>	<p>Assam has very rich experience of managing annual floods and has learnt lessons to improve flood management standards which are reflected in various initiatives. The Roadmap takes cognizance of the various areas of improvement highlighted through real-time assessments during floods. The Roadmap is expected to contribute towards a systemic reflection on how disasters and responses to them are looked at in a more predictable manner. It will look at establishing mechanisms to track real-time feedback for different kinds of disaster risk reduction initiatives implemented across sectors by departments and stakeholders. The existing systems to learn from floods will be further diversified while systems will be strengthened to ensure timely documentation of lessons learnt from other disasters through PDNA and other relevant processes. The stakeholder base is being opened with more space for Civil Society, PSUs, private sector, and academia to contribute across these agendas.</p>
<p>Agenda 10 - Bring about greater cohesion in international response to disasters.</p>	<p>Through the DRR Roadmap, stakeholders will explore the global best practices and successful models in pre-disaster planning and preparedness for improved response. Commitments under the international agreements such as the SFDRR, SDGs and Paris Climate Agreement are considered for responding to disaster risks. Learning and exchanges will be encouraged to imbibe shared resilience.</p>

1.3 Objectives

The DRR Roadmap for Assam aims at preventing new risks, reducing existing risks and managing residual risks thereby reducing losses and impacts of disasters in the state of Assam. Towards this aim, the Roadmap will accomplish the following objectives:

- Promote policy coherence relevant to disaster risk reduction, such as sustainable development, gender equity, poverty reduction and climate

change, particularly with the SDGs and the Paris Climate Agreement, Prime Minister's Ten Point Agenda for DRR and National Disaster Management Plan of India, 2019.

- To establish realistic targets in alignment with Sendai Framework for Disaster Risk Reduction (SFDRR) for reduction of losses and impacts.
- To set realistic and feasible actions across short, medium, and longer timescales in alignment with

the four priority areas of SFDRR for achieving the defined targets with a focus on most vulnerable groups including women, children, differentially able, families living below poverty line.

- Identify strategic opportunities for stakeholders (Government, Civil Society Organizations, Academic Institutions, Private Sector and UN Agencies) to coordinate and collaborate for disaster risk reduction actions.
- To establish a multi-stakeholder mechanism to follow-up, periodically assess and publicly report on progress.
- To estimate the average sector-wise losses and impacts due to disasters in the state of Assam from 2011 onwards based on available data.

Over and above, the Assam Disaster Risk Reduction Roadmap aspires to also address the following in a comprehensive and cohesive manner:

- To engage with and best utilize the existing governance mechanism and legal frameworks to manage the process of developing the DRR Roadmap and enabling its implementation.
- Build and improve understanding on disaster risks in the state and the various coping capacities at community and administrative levels to inform disaster risk reduction measures.
- To identify and collocate predictable and stable financial resources through multiple channels to ensure implementation of the roadmap.
- To leverage and build upon technical and institutional implementation capacities of various stakeholder departments and agencies.
- Transparent and rigorous follow-up and reviews to track progress and ensure real-time corrective measures.

1.4 Guiding Principles

- **Building on existing governance system:** Assam has made considerable progress on disaster risk governance front with strong SDMA and DDMA on the ground. The DRR Roadmap is built on the realization of strengths and areas of improvement in the overall risk governance domain and capitalizes on the routes and networks which have evolved over the years with governance systems at state, district, and sub-district levels. It recognizes the essence, values, and significance of the Disaster Management Act, 2005 for strengthening disaster resilience and aspires to build on institutional structure and mandate as envisioned under the Act. It also takes cognizance of the ambition and transformation envisioned under the National Disaster Management Plan, 2019.

- **Integrated all hazard approach:** The DRR Roadmap looks at disaster risks in total comprehension. While it emphasizes upon understanding multi-hazard risks in the context of the state, the action plan framework builds on an 'all-hazard' approach to address disaster resilience. Breaking silos, it pulls stakeholders to assess risks in their given context of functionality and relevance and adopts strategic action plans which will have co-benefits for all hazards and will enable systematic and systemic resilience.
- **Multi-stakeholder orientation to DRR outcomes:** The DRR Roadmap acknowledges and capitalizes on the importance of shared resilience. It aspires to adopt a holistic view for dealing with existing 'silos' between various departments based on their mandates, types of technical expertise and responsibility for different hazards or climate risks. The thematic and sub-thematic organization of the Roadmap emphasizes upon collaborative multi-stakeholder and multi-sectoral approach bringing together experts and stakeholders from all relevant departments, agencies, and institutions throughout the process of developing the DRR strategy. The consultative process to develop the Roadmap involved wide range of stakeholders and experts including government line departments, technical agencies, Higher Educational Institutions (HEIs), Public Sector Undertakings (PSU), Civil Society Organizations (CSOs), local leaders, frontline workers, and representatives of at-risk communities.
- **Coherence and Convergence:** Mutual interdependence for reducing disaster risks is non-negotiable and the Roadmap recognizes the same to promote and strengthen coherence across policy regimes governing development pathways. It aspires to learn from, contribute to, and amplify the efforts to achieve the Sustainable Development Goals (SDGs). It also envisages to reinforce the climate change adaptation commitments under the State Action Plan on Climate Change and seeks to bring alignment with India's NDCs and the Paris Agreement which promotes an integrated approach to building resilience to disaster and climate risk in support of risk-informed development. Most importantly, the DRR Roadmap aspires to deliver on the Prime Minister's 10 Point Agenda on Disaster Risk Reduction.
- **'Do No Harm':** 'Do No Harm' has been an important guiding principle in the development of the DRR Roadmap. The process and its output take due cognizance to avoid any negative effects of the interventions proposed on the rights of 'at-risk communities' and the relationship between different stakeholders at various levels including

community functioning, local economy and livelihoods as well as environment to the best extent possible.

- **Equity and Inclusion:** The DRR Roadmap is informed by a baseline established on available data which enables better visualization of impact on geographic and sectoral pillars. The consultative process as well as the proposed action plans have been developed applying the lens of the most vulnerable communities and at-risk groups. Special focus has been given to address gender specific vulnerabilities interpreting associated risks and their prioritization of sectoral

and inter-sectoral perspectives. Actions have been examined from the perspective of their relevance and implications towards various social and geographical vulnerabilities.

- **Resilient Development:** Resilience has been looked at as the core guiding principle, cross cutting all elements in the process. The four priority areas outlined in the Sendai Framework for DRR have been applied to approach resilience in the action planning carried out by all stakeholders which are segregated into different thematic pillars.

1.5 Process and methodology adopted for development of the DRR Roadmap

Developing the Conceptual Framework

The concept and process for developing the DRR Roadmap has evolved through exposure visits and discussions with states which have already initiated such policy frameworks. Officials from Assam State Disaster Management Authority (ASDMA) went to understand a similar process undertaken in Bihar; held several rounds of discussions with stakeholders and prepared the conceptual framework with technical support from UNICEF.

Preliminary Consultations with 16 Departments

Bilateral consultations were conducted with 16 Departments to review the initiatives taken for disaster management within the ambit of their respective disaster management plans and to discuss the DRR Roadmap process. The objective was to understand the current initiatives, the thinking of the department on making their work risk informed and discussions on the modalities of consultations to be taken up for developing the DRR Roadmap.

Creating a Baseline for the DRR Roadmap

A process to develop a baseline against the 7 Targets of SFDRR was initiated based on available reports and data generated from different damage reports, memorandums, and other relevant sources. The baseline data has been analyzed to inform setting up of targets and action plans.

Consultative Process

The process of consultation was divided into three levels to cover administrative and thematic inputs for the DRR Roadmap. The 1st level of consultations was organized at the Revenue Circle level in 154 Revenue Circles covering over 1000 participants and the 2nd level of consultations were organized at the district-level in 33 districts with over 400 participants for identifying the impact of disasters on various development outcomes and collect suggestions to reduce those impacts in line with the SFDRR priorities. The 3rd level of consultations was organized at the state-level on 7 thematic pillars with over 1000 participants which enabled state-wide reflection on specific subjects/themes aligned to the core responsibilities and functions of various line departments and stakeholders. 43 departments were actively involved in the preparation of the DRR action plans under different thematic areas. Due to the COVID-19 pandemic, subsequent state-level consultations were organized through a mixed method including both virtual and offline modes of interactions where departments got the opportunity to understand the methodology and tools of preparation of the action plans. Accordingly, they were provided with time to develop their action plans, seek expert input (wherever necessary), improve, and submit the revised to ASDMA through proper channel. Subsequently, the final DRR Roadmap was placed before the cabinet for approval.

Approval of the Conceptual Framework

The draft conceptual framework was presented to the State Executive Committee (SEC) of the Assam State Disaster Management Authority in its 37th meeting held on 8th October 2018.



1.6 Seven Thematic Groups

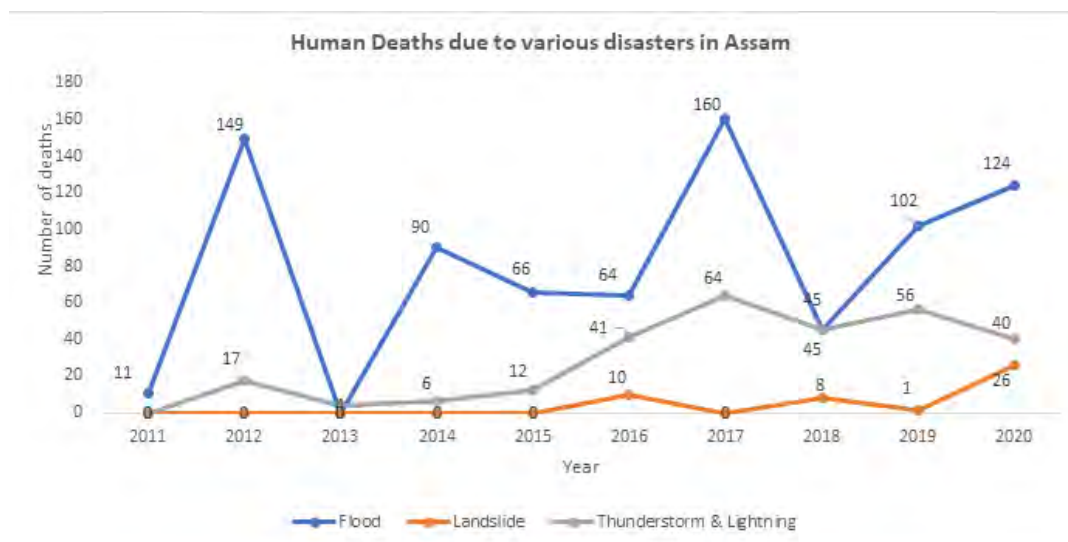
In order to better align with the governance structures and the various DRR functions, departmental action plans are clubbed into seven broad thematic areas. Each thematic group has action plans aligned with their DRR functions and identification of additional stakeholders for technical support and/or collaboration. Following are the thematic groups under the Assam DRR Roadmap:

1. **Resilient Social Sector Services and Infrastructure:** In this theme, the stakeholders will focus on ensuring uninterrupted access to and resilient basic social services such as water, sanitation, food, health, and housing.
2. **Resilient Critical Infrastructure:** In this theme, the stakeholders will focus on minimising disruption to the resources and structures which are critical for the society and economy to function optimally such as electricity, energy, telecommunication, industries, etc.
3. **Resilient Cities and Towns:** In this theme, the stakeholders will focus on amenities such as water, housing, roads, public spaces, etc. in cities and towns that can better handle disasters, absorb the impact of economic, environmental, and social hazards.
4. **Resilient Livelihoods:** In this theme, the stakeholders will focus on livelihoods that can quickly recover from disasters, absorb the impact of economic and environmental hazards, and promote people’s well-being and prosperity.
5. **Resilient Emergency Response Systems:** In this theme, the stakeholders will focus on critical life-saving response systems, early warning, search and rescue, first-aid, fire, emergency, and police services.
6. **Resilient Recovery and ‘Building Back Better’:** In this theme, the stakeholders will focus on post-disaster recovery measures to reduce vulnerability to future disasters, build resilience to address physical, social, environmental, and economic vulnerabilities and shocks.
7. **Shared Resilience and Ensuring Results:** In this theme, the stakeholders will focus on creating an enabling environment through legal amendments, new policies, directives, and financial commitments.

2. Baseline Data Analysis

2.1 Human Mortality due to Disasters

The graph below shows the number of human deaths due to flood, landslide, and thunderstorm in Assam since 2011. Due to these three hazards, there have been 114 deaths per year in the state between 2011 and 2020.



Source: Baseline Data, ASDMA

2.2 Road Accident-related Fatality & Injuries

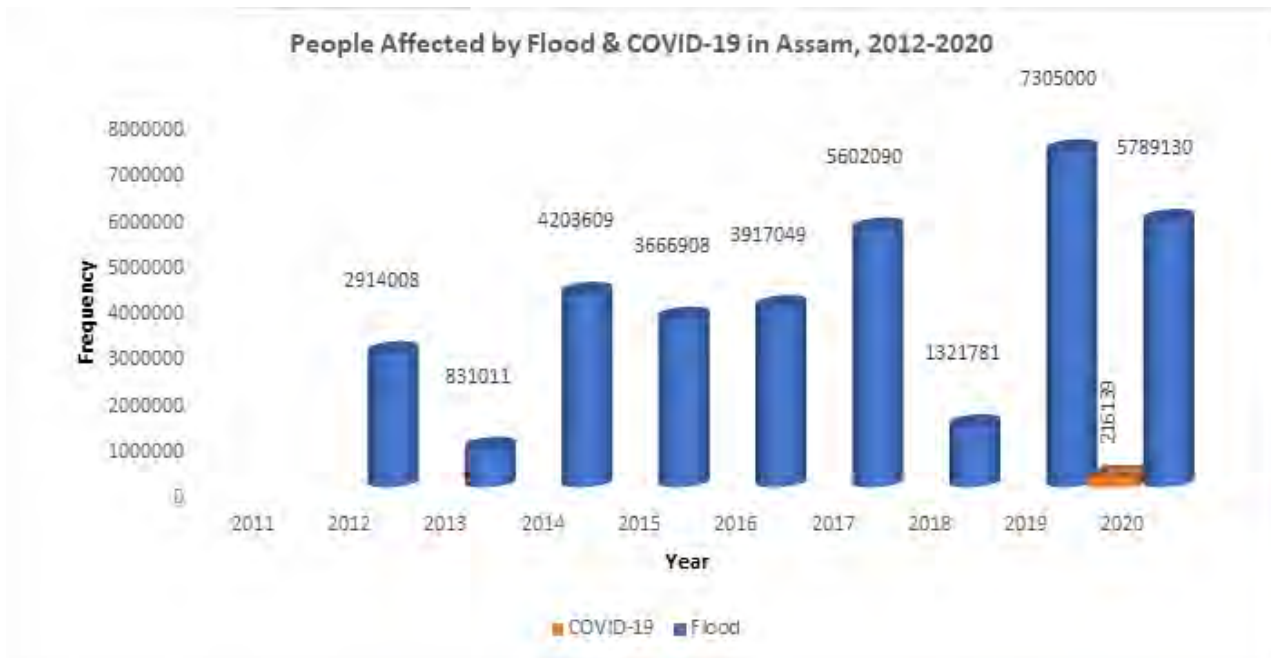
The graph below shows the number of human accidents, injuries, and fatalities due to road accidents in Assam since 2015. Along with the deaths due to natural hazards such as floods, deaths due to road accidents are on a rising trend (data for the year 2020 is up to November).



Source: Baseline Data, ASDMA

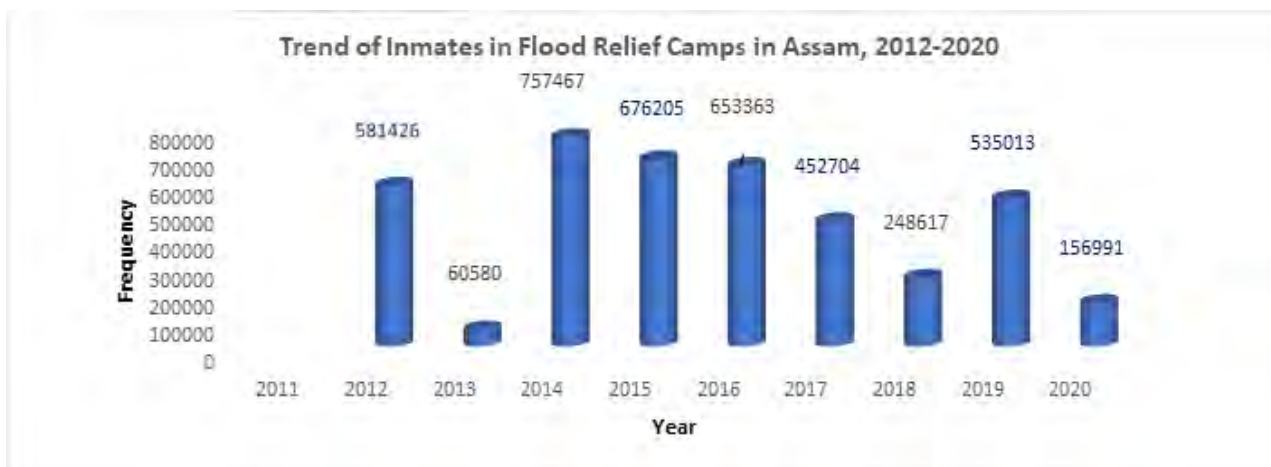
2.3 People Affected by Disasters

The graph below shows the number of people affected by flood since 2012 (*data not available for 2011*), and by COVID-19 in 2020 (*as on 31st December 2020⁶*) in Assam. The number of people affected by floods is largely on a rising trend, with an **average of over 39.5 Lakhs (3.9 million) people affected per year**.



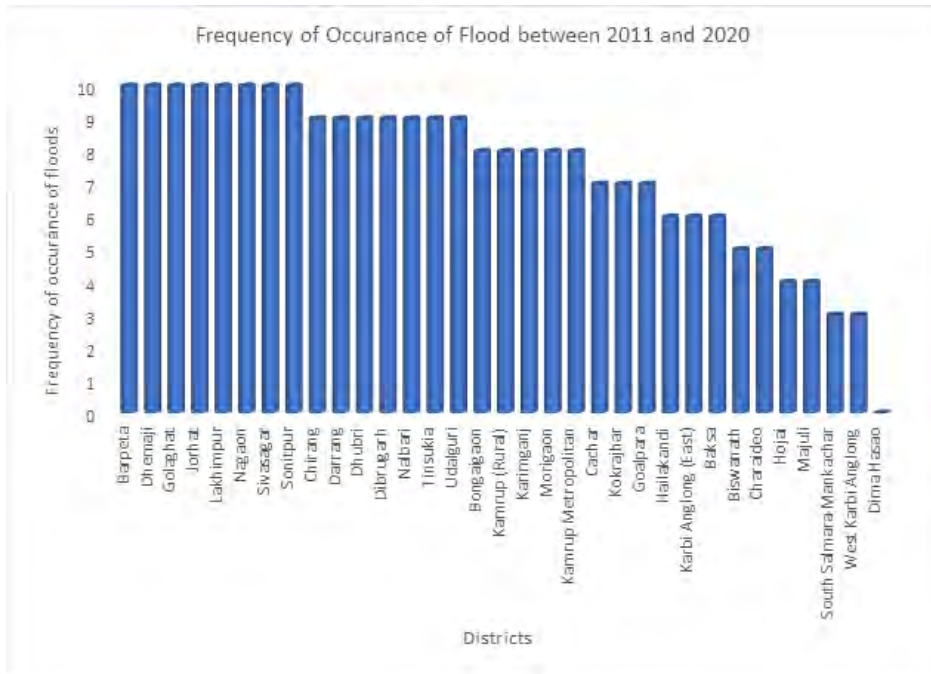
Source: Baseline Data, ASDMA

The graph below shows the number of people displaced by flood who took shelter in relief camps since 2012 (*data not available for 2011*) in Assam. The number of people taking shelter in relief camps during floods is on a declining trend.



Source: Baseline Data, ASDMA

6. Source: NDTV (<https://www.ndtv.com/coronavirus/fullcoverage>)



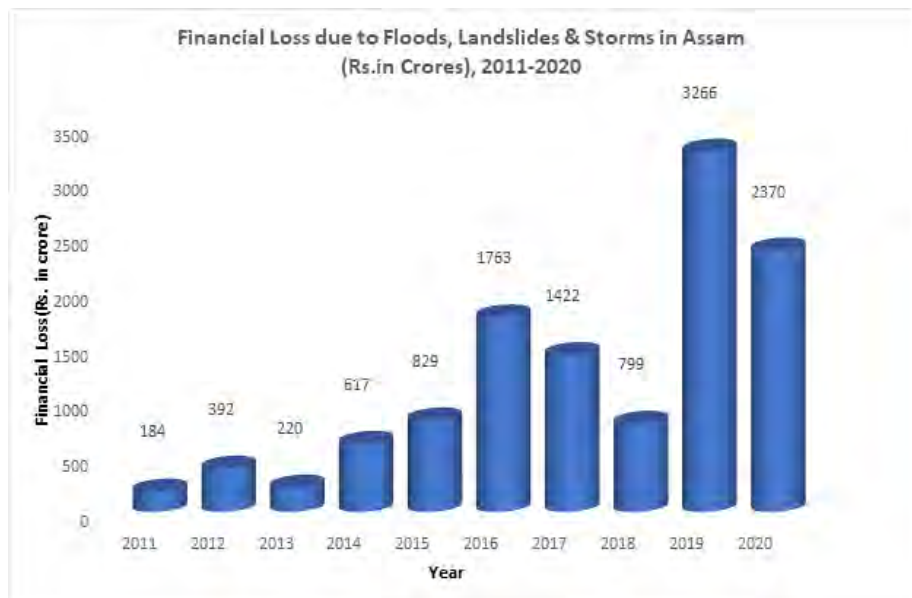
2.4 Districts Affected by Floods

The graph below shows the frequency of districts affected by floods since 2011. 20 districts were found affected by floods 8 or more times in the last 10 years. However, it should be noted that districts such as Majuli, South Salmara-Mankachar, Biswanath, Charaideo and Hojai, which became separate in 2016, are also highly flood prone like the districts they were part of, i.e., Jorhat, Dhubri, Sonitpur, Sivasagar, and Nagaon, respectively.

Source: Baseline Data, ASDMA

2.5 Financial Loss due to Disasters

The graph below shows the estimated financial loss incurred by the Departments under the Government of Assam since 2011. The financial loss has been calculated based on the available reports and estimated cost of various infrastructures damaged by flood, landslide, erosion, thunderstorm, earthquake, fire, violence, etc. in Assam. The financial loss due to disasters is on an increasing trend with an average loss of Rs.1186 Crores per year.



Source: Baseline Data, ASDMA

2.6 Need for Disaster Damage & Loss Database

During the baseline data collection, it was observed that the availability of disaster related damage and loss data with the Departments was significantly better from 2014 onwards, compared to the previous years. However, the need for a uniform database management system was expressed by all the stakeholders involved in the Assam DRR Roadmap process.

3. Thematic Action Plans

This chapter covers the Departmental Action Plans organized under the seven thematic groups of the Assam DRR Roadmap. Each Departmental Action Plan is placed under one thematic group most relevant to the nature/scope of their work/mandate. One Department's name may also be present in the Action Plan of another Department as a key stakeholder to provide Technical Support or to collaborate for joint intervention.

3.1 Resilient Social Sector Services & Infrastructure

In this theme, the stakeholders will focus on ensuring uninterrupted access to and resilient basic social services such as water, food, health, and housing.

3.1.1 Department of Elementary & Secondary Education

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all schools & offices to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC ⁷ , INDC ⁸ , SDG-4 ⁹
	2. Conduct safety audit of all schools & offices to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and recommend possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-4, PMTPA-4
	3. Involve children & adolescents while conducting safety audit of schools through interactive exercises such as 'Hazard Hunt' where children can identify risks in and around their school.	District / Sub-District	Short Term (by 2024)	Existing human resources at the state & district level.		SDG-4
	4. GIS/GPS Mapping of all schools and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resources at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	5. GIS/GPS Mapping of open spaces/safe locations to set up temporary schools in case the school is damaged due to any disaster.	State / District / Sub-District	Short Term (by 2024)	Existing human resources at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5

7. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

8. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://pib.gov.in/newsite/printrelease.aspx?relid=128403>)<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>

9. Reference: UN (<https://sdgs.un.org/goals/goal4>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	6. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans on emergency education response (flood, earthquake, pandemic, etc.) for Elementary & Secondary Education Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	SDG-4
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	9. Conduct mock-drills based on the Departmental Disaster Management Plan, SOPs & Contingency Plans in schools & offices.	District / Sub-District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, Health, PHE, Social Welfare Depts., NDRF, SDRF, Fire Services.	
	10. Design and implement a school safety programme to conduct regular trainings (for students, teachers, concerned officials at state, district and sub-district level), mock-drills, take structural & non-structural measures at school level, etc. based on the learnings ¹⁰ from ASDMA's school safety programme ¹¹ , & in line with the National School Safety Policy 2016 ¹² . The school safety programme can be named as 'Mukhyamantri Bidyalay Surakha Achoni'.	State / District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, Health, PHE, Social Welfare Depts., NDRF, SDRF, Fire Services, UNICEF.	SDG-4, NSSP
	11. Develop content on child rights, child protection, School Safety, DRR and Climate Change and integrate that in school curriculum.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Board of Secondary Education, Assam (SEBA) State Council of Educational Research and Training (SCERT) Assam Higher Secondary Education Council (AHSEC) 	Technical support from ASDMA, Social Welfare Dept., Fire Services, PWD (B&NH), Forest Dept. & UNICEF.	PMPA-8

10. Reference: ASDMA (http://www.asdma.gov.in/pdf/publication/School_Safety_2013.pdf)

11. Reference: Prevention Web (<https://wp.preventionweb.net/wcdr/wp-content/uploads/sites/2/India-Assam-School-Safety-Case-Study-ASDMA.pdf>)

12. Reference: ASDMA (http://www.asdma.gov.in/dschool_safety_nf.html)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	12. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-4, PMTPA-1
	13. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/ Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-4, PMTPA-1
	14. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	15. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient education & integrate that in the training curriculum for the Department officials & teachers.	State / District / Sub-District	Short Term (by 2024)	SEBA, SCERT, AHSEC	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-4
Priority 3: Investing in DRR for Resilience	16. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of all schools & offices in phased manner.	State / District / Sub-District	Long Term (by 2030)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	PMPA-1
	17. Allocation of funds for the school safety programme 'Mukhyamantri Bidyalay Surakha Achoni'.	State / District	Medium Term (by 2026)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA.	PMPA-1
	18. Print textbooks with integrated content on child rights, child protection, School Safety, DRR and Climate Change in the school curriculum.	State / District	Medium Term (by 2026)	SSA, SEBA, SCERT, AHSEC	Technical support from ASDMA.	NAPCC, INDC, SDG-4

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	19. Ensure provision of nutritious food through Mid-Day Meal, Micronutrient supplements (Iron Folic Acid), Deworming tablets, nutrition health education and monitor children's nutrition status.	District / Sub-District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)	Collaboration with Social Welfare Dept., Health Dept., UNICEF.	
	20. Develop Disaster Mitigation Project Proposals for Education in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	21. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (schools, offices, etc.) due to any disaster, injury/death of students, staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	22. Update existing training modules on School Safety developed by SCERT ¹³ and ASDMA ¹⁴ based on current disaster and climate change context of Assam.	State / District / Sub-District	Short Term (by 2024)	SEBA, SCERT, AHSEC	Technical support from ASDMA, Forest Dept., UNICEF.	PMTPA-8
	23. Training of officials from the Education department on monitoring of child rights, child protection, child and adolescent nutrition, School Safety, DRR and Climate Change and formation of state-district level joint monitoring teams.	State / District	Short Term (by 2024)	SEBA, SCERT, AHSEC	Technical support from ASDMA, Social Welfare Dept., Health Dept., UNICEF.	NAPCC, INDC, SDG-4
	24. Content on structural and non-structural safety, safe construction practices as per building byelaws should be integrated into the District Project Engineers/JEs of SSA training module.	State / District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services, UNICEF.	PMTPA-8
	25. Train District Project Engineers/JEs of SSA on structural and non-structural safety, safe construction practices as per building byelaws.	State / District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services, UNICEF.	PMTPA-8

13. Source: SCERT (https://elementary.assam.gov.in/sites/default/files/swf_utility_folder/departments/elemenataryedu_medhassu_in_oid_3/menu/document/Training%20Module%20on%20DRR%26SS.pdf)

14. Source: ASDMA (<http://sdmassam.nic.in/download/modules/Teachers%27Trg%20on%20School%20Safety.pdf>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	26. Develop IEC materials on child rights, child protection, school safety, First-Aid, DRR and climate change for all schools.	State / District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA, Social Welfare Dept., Health Dept., UNICEF.	
	27. Print and distribute IEC materials on child rights, child protection, school safety, First-Aid, DRR and climate change to all schools & also share through media for public awareness.	State / District	Short Term (by 2024)	Samagra Shiksha Abhiyan (SSA)		PMPA-7
	28. Publish braille books on disaster management for blind children & acquaint them with disaster safety techniques.	State / District	Medium Term (by 2026)	Samagra Shiksha Abhiyan (SSA)		
	29. Knowledge and skill building among children & adolescents on child rights, child protection, nutrition behaviours for children and adolescents, First-Aid, DRR and climate change through a mix of curriculum teaching and games.	District / Sub-District	Medium Term (by 2026)	SEBA, SCERT, AHSEC		NAPCC, INDC, SDG-4, PMPA-8
	30. Knowledge and skill building among teachers through training on child rights, child protection, nutrition behaviours for children and adolescents, School Safety, DRR and Climate Change as part of induction as well as routine training programmes.	District / Sub-District	Medium Term (by 2026)	SEBA, SCERT, AHSEC	Technical support from ASDMA & UNICEF.	NAPCC, INDC, SDG-4, PMPA-8
	31. Installation of fire extinguishers, fire alarm, safe drinking water facility, construction of disaster resilient basic facilities such as toilets, hand-washing stations, sanitary waste incinerator, etc. in all schools.	District / Sub-District	Medium Term (by 2026)	Samagra Shiksha Abhiyan (SSA)	Technical support from ASDMA & Fire Services.	SDG-4
	32. Preposition emergency response kits with essential supplies to set up temporary school facilities in case the school is damaged by any disaster.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA.	
	33. Promote solar power backup & rainwater harvesting installation in schools and offices.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept., Sci. & Tech. Dept., PWD (B&NH).	NAPCC, INDC, SDG-7 ¹⁵

15. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.1.2 Department of Higher Education

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, colleges, laboratories, hostels, libraries, etc. by Higher Education Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC ¹⁶ , INDC ¹⁷ , SDG- ¹⁸
	2. Conduct safety audit of all offices, colleges, laboratories, hostels, libraries, etc. to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	<ul style="list-style-type: none"> Existing human resource at the state & district level to coordinate. Rashtriya Uchatar Shiksha Abhiyan (RUSA) 	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-4, PMTPA-4
	3. Involve faculties, students, non-teaching staff in the safety audit of all colleges, laboratories, hostels, libraries, etc.	District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-4, PMTPA-8
	4. GIS/GPS Mapping of all offices, colleges, laboratories, hostels, libraries, etc. and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5

16. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

17. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

18. Reference: UN (<https://sdgs.un.org/goals/goal4>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans for Emergency Response (fire, floods, economic crisis, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA.	SDG-4
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA.	SDG-4, PMTPA-1
	9. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA.	SDG-4, PMTPA-1
	10. Support colleges & institutes to develop & implement their Disaster Management Plan, SOPs & Contingency Plans.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA.	PMTPA-6
	11. Conduct regular mock drills based on the Disaster Management Plan, SOPs & Contingency Plans in the offices, colleges & institutes.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA, Fire Services, NDRF, SDRF.	PMTPA-6
	12. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 		PMTPA-8
	13. Develop/update content on integration of DRR & Climate Change Adaptation in Higher Education & integrate that in the training curriculum for the Department officials, faculties & also in the curriculum for the students.	State / District / Sub-District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-4, PMTPA-6

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	14. Develop/update content on DRR & Climate Change Adaptation in the academic curriculum for the students in courses like Engineering, Environmental Science, Architecture, etc.	State / District / Sub-District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA.	NAPCC, INDC, SDG-4, PMT-PA-6
Priority 3: Investing in DRR for Resilience	15. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, lightning etc.) based on the findings from the safety audit of all offices, colleges, laboratories, hostels, libraries, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	RUSA	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-4
	16. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-4
	17. Develop Disaster Mitigation Project Proposals, to ensure disaster resilient higher education, in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMT-PA-1
	18. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of staff/faculty/student in office/college/institute premises, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	RUSA	Technical support from ASDMA, IT Dept., NIC.	PMT-PA-5
	19. Develop a secure online system for faculty & students to access the college/institute intranet & digital library in case the colleges/institutes are not physically accessible due to a disaster (like pandemic).	State / District	Medium Term (by 2026)	RUSA	Technical support from ASDMA, IT Dept.	
	20. Promote solar-based electrification & rainwater-harvesting installation in all offices, colleges, laboratories, hostels, libraries, etc. in a phased manner.	State / District	Medium Term (by 2026)	RUSA	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁹

19. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	21. Training of the Department officials & faculties on integrating DRR and Climate Change Adaptation for the disaster resilient higher education.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA, Assam Admin. Staff College (AASC).	PMTPA-8
	22. Develop IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilient higher education.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA, Info & PR Dept.	
	23. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilient higher education for all colleges, institutes, etc. & share through media for public awareness.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-13, PMTPA-7
	24. Train volunteers from colleges & higher educational institutions on disaster management based on College/University level DM Plans/SOPs.	District / Sub-District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA, NDRF, Fire Services.	PMTPA-8
	25. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, colleges, laboratories, hostels, libraries, etc.	District / Sub-District	Medium Term (by 2026)	<ul style="list-style-type: none"> Existing human resource at the state & district level. RUSA 	Technical support from ASDMA & Fire Services.	SDG-4

3.1.3 Department of Food, Civil Supplies & Consumer Affairs

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risks	1. Monitoring and evaluation of the One Nation One Ration Card programme.	District / Sub-District	Short Term (by 2024)	One Nation One Ration Card programme	<ul style="list-style-type: none"> Support from NIC. Other agencies to be appointed by Centre. 	NAPCC ²⁰ , INDC ²¹ , SDG-11 ²²
	2. App based GPS tracking system of FCI trucks, mapping of FPS and recording of food stocks from godowns and delivery at FPS.	State / District / Sub-District	Short Term (by 2024)	One Nation One Ration Card programme	Support from NIC.	NAPCC, INDC, SDG-11, PMTPA-5

20. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

21. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

22. Reference: UN (<https://sdgs.un.org/goals/goal9>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Under-standing Disaster Risks	3. Share GPS Database to be integrated with other departments. (Stakeholder Identity Modules - AMTRON) [FCI > Gaon Panchayat Samanway Samiti – Large Area Multi-Purpose Societies (only for Hill Districts) > Fair Price Shops]	State / District	Medium Term (by 2026)	GPS Database available.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	4. Update the existing Departmental Disaster Management Plan, SOPs & Contingency Plans on emergency response for officials of Food, Civil Supplies & Consumer Affairs Department at all levels (State, District, Sub-District), covering fire, flood, earthquake, storm, etc.	State / District	Short Term (by 2024)	Draft Dept. DM Plan available.	Technical support from ASDMA.	SDG-9 ²³
	5. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	6. Participate in the District Disaster Management Plan development process and mock drills organized by District Administration.	District / Sub-District	Short Term (by 2024)	District Level Dept. Staff	Technical support from DDMA.	
	7. Develop/update content on DRR in Food and Civil Supplies, and integrate that in the training curriculum for Food, Civil Supplies & Consumer Affairs officials.	State / District	Medium Term (by 2026)		Technical support from ASDMA.	
	8. Mainstream DRR in the Monthly Food, Civil Supplies & Consumer Affairs planned activities and allocation of necessary funds for mitigating disaster risks.	State / District	Short Term (by 2024)		Technical support from ASDMA.	PMTPA-1
	9. Maintain damage and loss data reported by Circle Officers to the Deputy Commissioners which can be used as the database.	State / District / Sub-District	Short Term (by 2024)	End-to-End Computerization of TPDS (Targeted Public Distribution System)	Additional HR required to maintain database.	PMTPA-9
	10. Digitization of ration cards, beneficiary, and other databases for all districts. [Under One Nation One Ration Card, Aadhaar/OTP-based Electronic Point of Sale (EPOS) machines are going to be introduced in Fair Price Shops for beneficiaries as per NFS Act].	State / District / Sub-District	Short Term (by 2024)	End-to-End Computerization of TPDS	Technical support from IT Dept.	SDG-9

23. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	11. Digitization of Supply Chain Management (including the movement, storage, and distribution of food grains). [Under One Nation One Ration Card, Aadhaar/OTP-based Electronic Point of Sale (EPOS) machines are going to be introduced in Fair Price Shops for beneficiaries as per NFS Act.]	State / District / Sub-District	Short Term (by 2024)	End-to-End Computerization of TPDS	Technical support from IT Dept.	SDG-9
	12. Digitization of Grievance Redressal Mechanism and setting up of Transparency Portal. Vigilance Committees formed at the FPS, GPSS, Block, Sub-Division, District and State (escalates from FPS to State level as per requirement).	State / District / Sub-District	Short Term (by 2024)	End-to-End Computerization of TPDS	Technical support from IT Dept.	SDG-9
	13. Conduct Social Audit by GP President and Area Inspector/Sub-Inspector (at pre-defined intervals).	District / Sub-Division	Short Term (by 2024)	Existing Social Audit mechanism.		
Priority 3: Investing in DRR for Resilience	14. Develop Disaster Mitigation Project Proposals for Food, Civil Supplies & Consumer Affairs in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	15. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	End-to-End Computerization of TPDS	Technical support from ASDMA, IT Dept.	PMTPA-5
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	16. Training of officials from the Food, Civil Supplies & Consumer Affairs Department on monitoring of DRR in Food and Civil Supplies, and formation of state-district level joint monitoring teams.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-8
	17. Orientation of staff/officials as per the Departmental DM Plan, SOPs & Contingency Plans on emergency response.	District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	18. Develop IEC materials on DRR in Food and Civil Supplies.	State / District	Short Term (by 2024)	Dept. funds available.	Technical support from ASDMA, Info & PR Dept.	
	19. Print and distribute IEC materials on DRR in Food and Civil Supplies.	State / District	Short Term (by 2024)	Dept. funds available.		

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	20. Increase public awareness on Grievance Redressal Mechanism and Transparency Portal through radio, print, TV, and social media.	State / District / Sub-District	Short Term (by 2024)	Dept. funds available.	Technical support from Info & PR Dept.	PMTPA-7

3.1.4 Department of Health & Family Welfare

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all health facilities to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, pandemic, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	National Health Mission		NAPCC ²⁴ , INDC ²⁵ , SDG-3 ²⁶
	2. Conduct safety audit of all health facilities to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, pandemic, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	National Health Mission	Technical support from ASDMA & PWD (B&NH).	NAPCC, INDC, SDG-3, PMTPA-4
	3. GIS/GPS Mapping of all health facilities and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	4. GIS/GPS Mapping of open spaces/ safe locations to setup temporary health facilities to continue its services in case the health facility is damaged due to any disaster.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
	6. Mapping of vulnerable population and areas, and development of communication and transportation plans by to reach the most difficult areas even during emergencies to provide health services.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-4

24. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

25. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

26. Reference: UN (<https://sdgs.un.org/goals/goal3>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	7. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency health response (flood, earthquake, pandemic, heat wave, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-3
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	9. Develop and implementation of Bio-medical Waste Management Guidelines.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-3, PMTPA-1
	10. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-3, PMTPA-1
	11. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-3, PMTPA-1
	12. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	13. Utilization of the NHM funds for damaged health facilities in disasters as per the applicable laws.	State / District	Long Term (by 2030)	National Health Mission		SDG-3
	14. Develop policy on disaster safety audit and lifespan/ quality certificate for all infrastructure implemented through Panchayats.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.		PMPA-1
	15. Set up a 'Centre of Excellence' within the Department, involving relevant stakeholders, to monitor the emerging & future risks/vulnerabilities to advise the State Govt. accordingly to take up appropriate measures.	State	Short Term (by 2024)	National Programme on Climate Change & Human Health (NPCCHH)	Participation of Departments, UN Agencies, NGOs, etc.	
	16. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient health facilities & services & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-3

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	17. Convene other relevant departments (Social Welfare, SSA, Poshan Abhiyaan), develop SOP and Contingency Plan for ensuring continuity of services under convergent nutrition flagship programmes led by NHM.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Support from Social Welfare Dept., Poshan Abhiyaan, SSA, UNICEF.	
	18. Share the information on availability of doctors, beds, ventilators, etc. in all public & private hospitals of Assam in the public domain.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, IT Dept., NIC.	
Priority 3: Investing in DRR for Resilience	19. Identify and resources mobilization from other sectors in private (railway, oil) – hospital beds, equipment, blood transfusion, ambulances and other important hospitals supplies.	State / District	Short Term (by 2024)	Dept. Annual Plan.		
	20. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, pandemic, etc.) based on the findings from the safety audit of all health facilities in phased manner by the Health Department.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.		SDG-3
	21. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-3
	22. Convergence with various national programmes like NTEP, NLEP, RCH, ASACS, etc. for tapping the funds and resources.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		PMPA-1
	23. Develop Health Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resources at the state & district level.	Technical support from ASDMA.	PMPA-1
	24. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (offices, health facilities, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resources at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	25. Procurement of adequate no. of critical care ambulance, hospital equipment like oxygen, ventilators, PPE kits, etc., anti-venom, NCD drugs, emergency management kits & storage for all health facilities.	State / District	Medium Term (by 2026)	National Health Mission		SDG-3

27. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	26. Procurement and installation of solar and fuel based cold chain equipment.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ²⁷
	27. Promote rainwater-harvesting installation in all health facilities for non-medical purposes.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from PWD (B&NH).	PMPA-1
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	28. Develop/update training module on health and Disaster Risk Reduction for officials of Health Department at all levels (State, District, Sub-District).	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, UNICEF, WHO and NGOs working on health.	NAPCC, INDC, SDG-13 ²⁸
	29. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient health facilities & services.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-3
	30. Develop IEC materials on integrating DRR and Climate Change Adaptation in health facilities & services.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	31. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation in health facilities & services & share through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-13, PMTPA-7
	32. Installation of fire extinguishers, fire alarm, safe drinking water facility, construction of disaster resilient basic facilities such as toilets, hand-washing stations, etc. in all health facilities.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-3
	33. Preposition emergency response kits with essential supplies to set up temporary health facilities in case the facility is damaged by any disaster.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		
	34. Conduct regular mock drills for emergency health response.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, NDRF, SDRF & Fire Services.	
	35. Take remedial actions to address the barriers in access and disruption in essential services and supplies especially for women and girls due to disasters.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.		SDG-3

27. Reference: UN (<https://sdgs.un.org/goals/goal13>)28. Reference: UN (<https://sdgs.un.org/goals/goal7>)29. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	36. Increase road safety awareness to reduce accidents.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Collaboration with ASDMA, Transport Dept., PWD (Roads), Info & PR Dept.	NAPCC, INDC, SDG-11 ²⁹ , PMTPA-1
	37. Develop Social & Behaviour Change Communication (SBCC) packages to address health and nutrition risks.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, UNICEF, WHO.	

3.1.5 Department of Hill Areas

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, infrastructure schemes under the Hill Areas Dept. to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ³⁰ , INDC ³¹ , SDG-11 ³²
	2. Conduct safety audit of all offices, infrastructure schemes under the Dept. to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and possible remedial measures (retrofitting, rehabilitation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. GIS/GPS Mapping of all Departmental infrastructure and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	4. GIS/GPS Mapping of open spaces/safe locations to setup relief camps in case the designated relief camps are damaged due to any disaster.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5

30. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

31. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

32. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Re-quired	Linkage with Other Frame-works
	5. Share the GIS/GPS Database to be integrated with other departments.	State / Dis-trict	Medium Term (by 2026)	Existing hu-man resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Man-agement Plan, SOP & Contingency Plans for Emergency Response (fire, floods, earthquake, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / Dis-trict	Short Term (by 2024)	Existing hu-man resource at the state & district level.	Technical support from ASDMA.	
	7. Create a Departmental budget head & allocate funds for disaster miti-gation, preparedness, research & contingency purpose.	State / Dis-trict	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Mandatory integration of DRR and Climate Change Adaptation compo-nents during the planning, designing & implementation of all the projects under State Funding for Priority Development (SFPD).	State / Dis-trict	Short Term (by 2024)	State Funding for Priority Development (SFPD)		NAPCC, INDC, SDG-13 ³³ , PMT-PA-1
	9. Integrate DRR Roadmap interven-tions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Man-agement Plan, and budgets.	State / Dis-trict	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMT-PA-1
	10. Form state-district level joint moni-toring teams to assess and monitor disaster preparedness, response, recovery, and mitigation in the De-partmental projects.	State / Dis-trict	Short Term (by 2024)	Existing hu-man resource at the state & district level.		PMTPA-8
	11. Setup systems to access early warning messages for lightning, storm, flood, etc. by the Department officials.	District / Sub-District	Short Term (by 2024)		Technical support from ASDMA & IMD.	NAPCC, INDC, SDG-13, PMT-PA-5
	12. Develop policy on disaster safety audit and lifespan/ quality certificate for construction of new infrastruc-ture under State Funding for Priority Development (SFPD).	State / Dis-trict	Medium Term (by 2026)	State Funding for Priority Development (SFPD)		PMTPA-1
	13. Develop/update content on DRR & Climate Change in Hill Areas devel-opment and integrate that in the training curriculum for the Depart-ment officials.	State / District / Sub-District	Short Term (by 2024)		Technical support from ASDMA.	

33. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	14. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, landslide, earthquake, etc.) based on the findings from the safety audit of all offices, infrastructure schemes, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC, INDC, SDG-11
	15. Mapping of resources available under various schemes/sectors such as 15th Finance Commission, Health, Education, Agriculture, Irrigation, Road, etc. for optimum convergence and integration of DRR.	State / District	Short Term (by 2024)	Dept. Annual Plan.		
Priority 3: Investing in DRR for Resilience	16. Allocation of funds under various schemes such as 15th Finance Commission, MGNREGA, State Funding for Priority Development (SFPD), etc. for integration of DRR and Climate Change Adaptation components in all planned projects.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		PMPA-1
	17. Implement policy on disaster safety audit and lifespan/ quality certificate for construction of new infrastructure under State Funding for Priority Development (SFPD).	State / District	Long Term (by 2030)	State Funding for Priority Development (SFPD)		PMPA-1
	18. Construction of multi-purpose flood shelters/ community halls in safe locations for hazard prone areas.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from PWD (B&NH) Dept.	NAPCC, INDC, SDG-13
	19. Develop Community Disaster Mitigation Project Proposals in line with State Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Dept. Annual Plan.		PMPA-1
	20. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	21. Promote solar-based electrification & rainwater harvesting in the offices and Departmental infrastructure, in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ³⁴

34. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	22. Training of the Department officials on DRR and Climate Change Adaptation in Hill Areas development.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMT-PA-8
	23. Setup public announcement systems and disseminate early warning messages for lightning, storm, flood, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMT-PA-5
	24. Develop IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilient Hill Areas development.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	25. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilient Hill Areas development for all offices and District Councils & share through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-13, PMT-PA-7
	26. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, water supply schemes, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	NAPCC, INDC, SDG-11

3.1.6 Department of Panchayat & Rural Development

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Develop multi-hazard assessment checklist to assess the Risk, Vulnerability, and Capacity of people, livelihood, and infrastructure in all Panchayats as part of the Gaon Panchayat Development Plan (GPDP), including the needs of the children, women, marginalized communities, and persons with disabilities.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ³⁵ , INDC ³⁶ , SDG-11 ³⁷
	2. Conduct Hazard, Risk, Vulnerability, and Capacity Assessment (HRVCA) of all Panchayats as part of the GPDP, including the needs of the children, women, marginalized communities, and persons with disabilities.	Block	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMT-PA-4

35. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drganmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

36. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

37. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	3. GIS/GPS Mapping of all infrastructure implemented through P&RD Department and monthly updation of the GPS database, categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Block	Medium Term (by 2026)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	4. GIS/GPS Mapping of open spaces/ safe locations to setup relief camps in case the designated relief camps are damaged due to any disaster.	State / District / Block	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response for the Panchayat & Rural Development Department officials at all levels (State, District, Sub-District), covering fire, floods, earthquake, pandemic, etc.	State / District	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA.	
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Form state-district & inter-departmental level joint monitoring teams to assess and monitor disaster preparedness, response, recovery, and mitigation in Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.		PMTPA-8
	9. Mandatory integration of disaster preparedness, response, recovery, mitigation, and climate change adaptation components in all the projects proposed under the GPDP.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13 ³⁸ , PMTPA-1
	10. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1

38. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	11. Strengthen decentralized planning by ensuring participation of children, women, marginalized communities, and persons with disabilities in Ward Sabha and Gaon Sabha.	District / Block	Medium Term (by 2026)	Gaon Panchayat Development Plan (GPDP)		SDG-5 ³⁹ , PMTPA-3
	12. Strengthen community-based disaster management by ensuring participation of children, women, marginalized communities, and persons with disabilities in Panchayat level Task Forces planning process.	District / Block	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.		SDG-5, SDG-13, PMTPA-3
	13. Setup systems to access early warning messages for lightening, storm, flood, etc. by Panchayat level Task Force members.	District / Block	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA & IMD.	PMTPA-5
	14. Develop policy on disaster safety audit and lifespan/ quality certificate for all infrastructure implemented through Panchayats.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		PMTPA-1
	15. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient rural development & integrate that in the training curriculum for the Department officials.	State / District / Block	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Env. & Forest Dept., Assam Admin. Staff College (AASC), UN Agencies.	NAPCC, INDC, SDG-13
Priority 3: Investing in DRR for Resilience	16. Mapping of resources available under various schemes (such as 15th Finance Commission, MGNREGA, PMAY-G, NSAP, ASRLM, etc.) for optimum convergence and integration of DRR.	State / District	Short Term (by 2024)	Dept. Annual Plan.		
	17. Allocation of funds under various schemes (such as 15th Finance Commission, MGNREGA, PMAY-G, NSAP, ASRLM, etc.) for integration of disaster preparedness, response, recovery, mitigation, and climate change adaptation components in all planned projects.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		NAPCC, INDC, SDG-13, PMTPA-1
	18. Take up plantation and bio-remedial measures to mitigate the impact of erosion, cyclone, and climate change.	District / Block	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Forest, Soil Conservation and Water Resources Dept.	NAPCC, INDC, SDG-13, PMTPA-1

39. Reference: UN (<https://sdgs.un.org/goals/goal5>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	19. Construction of multi-purpose flood shelters/ community halls in flood prone Panchayats.	State / District / Block	Long Term (by 2030)	Dept. Annual Plan.	Technical support from PWD (B&NH) Dept.	NAPCC, INDC, SDG-13
	20. Develop Community Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA.	PMPA-1
	21. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets/infrastructure (office, equipment, houses, community halls, etc.) due to any disaster, staff/workers injury/death on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	22. Promote solar-based electrification & rainwater harvesting in all offices, community halls, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁴⁰
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	23. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient rural development.	State / District	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA, Env. & Forest Dept., AASC, UN Agencies.	NAPCC, INDC, SDG-13, PMTPA-8
	24. Formation of Panchayat level Task Force involving PRI members, Community leaders, SHG representatives, CBO representatives, etc. to monitor the disaster preparedness, response, recovery, and mitigation measures as well as continuity of food and nutrition services, at the Panchayat level.	District / Block	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	PMPA-8
	25. Organize First-Aid, Search and Rescue training annually for physically fit youths in the Panchayat.	District / Block	Medium Term (by 2026)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA, SDRF, NDRF, Fire Services and Health Dept.	NAPCC, INDC, SDG-13, PMTPA-8
	26. Setup public announcement systems and disseminate early warning messages for lightening, storm, flood, etc.	District / Block	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-5

40. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	27. Orientation and capacity development of Panchayat level Task Force members and district level Coordination Committee members by SIPRD on mainstreaming DRR in GPDP.	District / Block	Short Term (by 2024)	Existing human resource at the state, district & panchayat level.	Technical support from ASDMA, UNICEF and WHO.	PMTPA-8
	28. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, community halls, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11

3.1.7 Department of Public Health Engineering

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all PHE infrastructure to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ⁴¹ , INDC ⁴² , SDG-6 ⁴³ , SDG-11 ⁴⁴
	2. Conduct safety audit of all PHE infrastructure to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-6, SDG-11, PMTPA-4
	3. GIS/GPS Mapping of all PHE infrastructure and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMTPA-5
	4. GIS/GPS Mapping of open spaces/ safe locations to setup temporary PHE infrastructure to continue WASH services in case the PHE facility is damaged due to any disaster.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMTPA-5

41. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

42. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

43. Reference: UN (<https://sdgs.un.org/goals/goal6>)

44. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	5. GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency WASH response (epidemic, flood, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-6, SDG-13, PMTPA-1
	9. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-6, SDG-13, PMTPA-1
	10. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	11. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient water supply & sanitation facilities & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Forest Dept., Assam Admin. Staff College (AASC), UNICEF.	NAPCC, INDC, SDG-6, SDG-13
Priority 3: Investing in DRR for Resilience	12. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of all PHE infrastructure in phased manner by the Department.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.		NAPCC, INDC, SDG-6, SDG-11, PMTPA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	13. Increase the existing budget to incorporate disaster resilient measures in PHED infrastructure (Raised Platform Toilets, Hand Tube wells, etc.) and services (Portable Water Treatment Unit).	State / District	Medium Term (by 2026)	Dept. Annual Plan.		NAPCC, INDC, SDG-6, SDG-11, PMTPA-1
	14. Explore the possibility of funding for disaster resilient PHE infrastructure through PPP mode, CSR, and crowd funding.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		
	15. Develop WASH Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, UNICEF.	PMPA-1
	16. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, PWSS, latrines, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	17. Identify and include disaster risk financing and risk insurance options for PHE infrastructure.	State / District	Long Term (by 2030)	Dept. Annual Plan.		PMPA-2
	18. Promote solar-based electrification & rainwater harvesting in all offices, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁴⁵
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	19. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient water supply & sanitation facilities.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Forest Dept., AASC, UNICEF.	NAPCC, INDC, SDG-6, SDG-13, PMTPA-8
	20. Develop IEC materials on WASH and DRR to be used in village, Panchayat and District level.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept., P&RD Dept.	
	21. Print IEC materials on WASH and DRR to be used in village, Panchayat and District level & share through media for public awareness.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept., P&RD Dept.	NAPCC, INDC, SDG-6, SDG-13, PMTPA-7

45. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	22. Preposition emergency response kits with essential supplies and equipment to set up temporary WASH facilities in case the PHE infrastructures are damaged by any disaster.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		
	23. Develop Social Behaviour Change Communication packages to address public health risks.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, UNICEF, WHO.	NAPCC, INDC, SDG-6, SDG-13
	24. Training, awareness generation and relief distribution for public health preparedness & response for Department officials.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with NGOs.	NAPCC, INDC, SDG-6, SDG-13
	25. Procurement of adequate no. of PPE kits and safety equipment for front-line workers.	State / District	Short Term (by 2024)	Dept. Annual Plan.		
	26. Adapting global and national best practices for risk informed WASH preparedness, response, and recovery.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		PMPA-9

3.1.8 Department of Women and Child Development & Department of Social Justice and Empowerment (Erstwhile Social Welfare Department)⁴⁶

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all Anganwadi Centres (AWCs), Child Care Institutions (CCIs), Old Age Homes, etc. by Social Welfare Department to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Integrated Child Development Services (ICDS)	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC ⁴⁷ , INDC ⁴⁸ , SDG-3 ⁴⁹ , SDG-13 ⁵⁰

46. This action plan was developed before the creation of the Department of Women and Child Development and Department of Social Justice and Empowerment from the erstwhile Social Welfare Department vide Order No: AR.41/2022/2 dated 8th June 2022.

47. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

48. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

49. Reference: UN (<https://sdgs.un.org/goals/goal3>)

50. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	2. Conduct safety audit of all AWCs, CCIs, Old Age Homes, etc. to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	ICDS	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-3, SDG-13, PMTPA-4
Priority 1: Understanding Disaster Risk	3. Involve children & adolescents while conducting safety audit of AWCs through interactive exercises such as 'Hazard Hunt' where children can identify risks in and around their AWCs.	District / Sub-District	Short Term (by 2024)	ICDS	Collaboration with NGOs, Universities.	SDG-13, PMTPA-8
	4. Conduct study to identify risks faced by children due to disasters, climate change, forced migration, crime (trafficking, kidnapping, physical violence, sexual abuse, etc.), mental health issues and recommended actions in all districts of Assam.	State / District / Sub-District	Short Term (by 2024)	Integrated Child Protection Scheme (ICPS)	Collaboration with ASCPCR, Police, NGOs, ASDMA, Education Dept., UNICEF.	SDG-13, PMTPA-4
	5. GIS/GPS Mapping of all AWCs, CCIs, Old Age, etc. and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMPA-5
	6. GIS/GPS Mapping of open spaces/ safe locations to setup temporary AWCs in case the AWC is damaged due to any disaster.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMPA-5
	7. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	8. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans on emergency nutrition and protection response (including review of continuity of essential food and nutrition services) for Social Welfare Department officials at all levels (State, District, Sub-District), covering flood, pandemic, fire, earthquake, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, UNICEF.	
	9. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	10. Conduct mock-drills for AWCs, CCIs, Old Age Homes based on Departmental Disaster Management Plan, SOPs & Contingency Plans.	District / Sub-District	Short Term (by 2024)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, Health, PHE Depts., NDRF, SDRF, Fire Services.	
Priority 2: Strengthening Disaster Risk Governance	11. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient nutrition & protection services for children, adolescents & women, & integrate that in the training curriculum for the Department officials.	State / District	Short Term (by 2024)	ICDS, Poshan Abhiyan	Technical support from ASDMA, Fire Services, PWD (B&NH) Dept., Forest Dept., UNICEF.	
	12. Formation and strengthening of the Child Protection Committees at the village (VL-CPC) and Panchayat level (PLCPC).	District / Sub-District	Short Term (by 2024)	ICPS	Collaboration with NGOs.	PMTPA-8
	13. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	14. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	15. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
Priority 3: Investing in DRR for Resilience	16. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of all AWCs, CCIs, Old Age Homes, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-3, SDG-13, PMTPA-1
	17. Develop Disaster Mitigation Project Proposals for Social Welfare in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	18. Establish mechanism to review status and ensure continuity of essential nutrition services including growth monitoring, screening for malnutrition, care for children with Severe Acute Malnutrition, micronutrient supplementation and deworming for children and adolescents and counselling on MIYCN behaviours for children and women.	State / District	Short Term (by 2024)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, NHM, UNICEF.	
	19. Identify and promote locally sourced protein and energy rich food supplements that are culturally relevant for distribution and consumption during disasters. Establish mechanisms to provide safely prepared fresh cooked foods from different food groups. Special care to be taken to stop distribution/promotion of breastmilk substitutes, infant formula, baby foods, and foods high in fats/salt/sugar (HFSS foods) for children (in line with IMS Act).	District / Sub-District	Short Term (by 2024)	ICDS, Poshan Abhiyan	Technical support from Agriculture Dept., ASRLM.	SDG-2 ⁵¹ , SDG-3, PMTPA-8
	20. Develop kitchen gardens in all AWCs.	District / Sub-District	Short Term (by 2024)	ICDS, Poshan Abhiyan	Technical support from Agriculture Dept.	SDG-2, SDG-3
	21. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (offices, AWCs, CCIs, Old Age Homes, etc.) due to any disaster, injury/death of staff on duty, beneficiaries of AWCs, & children of CCIs due to disaster/pandemic, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, IT Dept., NIC	PMPA-5
	22. Promote solar-based electrification of all offices, AWCs, CCIs, Old Age Homes, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁵²
23. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient nutrition & protection services for children & mothers.	State / District	Short Term (by 2024)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, UNICEF.	NAPCC, INDC, SDG-3, SDG-13, PMTPA-8	

51. Reference: UN (<https://sdgs.un.org/goals/goal2>)52. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	24. Orientation of VLCPC, PLCPC, CWC, DCPU, Railway Police, Police, etc. other stakeholders as per the Departmental Disaster Management Plan, SOPs & Contingency Plans on Child Protection in Emergencies.	District / Sub-District	Medium Term (by 2026)	ICDS, ICPS, Poshan Abhiyan	Collaboration with NGOs.	NAPCC, INDC, SDG-3, SDG-13, PMTPA-8
	25. Develop IEC materials on child rights, nutrition, protection, First-Aid, DRR, Climate Change, etc.	State / District	Short Term (by 2024)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, Info. & PR Dept., UNICEF.	
	26. Print and distribute IEC materials on child rights, nutrition, protection, First-Aid, DRR, Climate Change, etc. for all AWCs, CCIs, Old Age Homes, etc.	State / District	Short Term (by 2024)	ICDS, ICPS, Poshan Abhiyan		
	27. Knowledge and skill building among children, adolescents and women on child rights, nutrition, protection, First-Aid, DRR, Climate Change, etc. through a mix of AWC curriculum teaching and games.	District / Sub-District	Medium Term (by 2026)	ICDS, ICPS, Poshan Abhiyan	Collaboration with NGOs, Red Cross.	NAPCC, INDC, SDG-3, SDG-13, PMTPA-8
	28. Knowledge and skill building among Anganwadi worker, Supervisors and Poshan Abhiyaan coordinators on adolescents and women on child rights, nutrition, First-Aid, DRR, Climate Change, etc.	District / Sub-District	Short Term (by 2024)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, NHM, UNICEF.	NAPCC, INDC, SDG-3, SDG-13, PMTPA-8
	29. Installation of fire extinguishers, fire alarm, safe drinking water facility, construction of disaster resilient basic facilities such as toilets, hand-washing stations, sanitary waste incinerator, etc. in all AWCs, CCIs, Old Age Homes, etc.	District / Sub-District	Medium Term (by 2026)	ICDS, ICPS, Poshan Abhiyan	Technical support from ASDMA, PHED, Fire Services.	
	30. Preposition emergency response kits with essential supplies to set up temporary AWC facilities in case the AWC is damaged by any disaster.	District / Sub-District	Medium Term (by 2026)	ICDS, ICPS, Poshan Abhiyan		

3.2 Resilient Critical Infrastructure

In this theme, the stakeholders will focus on minimizing disruption to the resources and structures which are critical for the society and economy to function optimally such as electricity, energy, telecommunication, industries, etc.

3.2.1 Department of Border Protection & Development

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, infrastructure (community halls, water supply, health facilities, schools, bridges, border outposts, etc.) under the Border Protection & Development Dept. to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ⁵³ , INDC ⁵⁴ , SDG-11 ⁵⁵
	2. Conduct safety audit of all offices, infrastructure (community halls, water supply, health facilities, schools, bridges, border outposts, etc.) under the Department to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. GIS/GPS Mapping of all Departmental infrastructure and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMPA-5
	4. GIS/GPS Mapping of open spaces/ safe locations to setup relief camps in case the designated relief camps are damaged due to any disaster.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5

53. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

54. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

55. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response for the Department officials at all levels (State, District, Sub-District), covering fire, floods, earthquake, pandemic, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, SDG-13 ⁵⁶
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Form state-district level joint monitoring teams to assess and monitor disaster preparedness, response, recovery, and mitigation in Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	9. Mandatory inclusion of DRR and climate change adaptation components in all the projects Border Area Development Programme (BADP), Border Development Activities (BDA), Border Outreach Programme (BOP), Border Outpost (BO).	State / District	Short Term (by 2024)	BADP, BDA, BOP, BO	Technical support from ASDMA.	NAPCC, INDC, SDG-11, SDG-13, PMTPA-1
	10. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, PMTPA-1
	11. Setup systems to access early warning messages for lightning, storm, flood, etc. by the Department officials.	District / Sub-District	Short Term (by 2024)		Technical support from ASDMA & IMD.	SDG-13, PMTPA-1
	12. Develop policy on disaster safety audit and lifespan/ quality certificate for construction of new infrastructure under BADP, BDA, BOP, BO.	State / District	Medium Term (by 2026)	BADP, BDA, BOP, BO	Technical support from ASDMA, PWD (B&NH), Fire Services.	PMTPA-1
	13. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient border area development & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)		Technical support from ASDMA.	NAPCC, INDC, SDG-13

56. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	14. Mapping of resources available under various schemes/sectors such as Health, Education, Water, Sanitation, Road, etc. for optimum convergence and integration of DRR.	State / District	Short Term (by 2024)	BADP, BDA, BOP, BO		SDG-6 ⁵⁷
	15. Implement remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities community halls, water supply, health facilities, schools, bridges, border outposts, etc.), and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of the Department infrastructure in phased manner.	District / Sub-District	Long Term (by 2030)	BADP, BDA, BOP, BO	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMTPA-1
	16. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Short Term (by 2024)	BADP, BDA, BOP, BO	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	17. Construction of multi-purpose flood shelters/ community halls in safe locations for hazard prone areas.	State / District / Sub-District	Long Term	BADP	Technical support from PWD (B&NH) Dept.	NAPCC, INDC, SDG-11
	18. Develop Community Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-11
	19. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	20. Promote solar-based electrification & rainwater harvesting in the offices and Departmental infrastructure, in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁵⁸
21. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient border area development.	State / District	Short Term (by 2024)	BADP, BDA, BOP	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-8	

57. Reference: UN (<https://sdgs.un.org/goals/goal6>)58. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	22. Setup public announcement systems and disseminate early warning messages for lightning, storm, flood, etc.	District / Sub-District	Medium Term (by 2026)	BADP, BDA, BOP	Technical support from ASDMA, IMD.	NAPCC, INDC, SDG-13, PMTPA-5
	23. Develop IEC materials on integrating DRR and Climate Change Adaptation in border area development.	State / District	Short Term (by 2024)	BADP, BDA, BOP	Technical support from ASDMA, Info & PR Dept.	
	24. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation in border area development for all offices & share through media for public awareness.	State / District	Short Term (by 2024)	BADP, BDA, BOP	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-13, PMTPA-7
	25. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, water supply schemes, border outposts, health facilities, etc.	District / Sub-District	Medium Term (by 2026)	BADP, BDA, BOP, BO	Technical support from ASDMA & Fire Services.	

3.2.2 Department of Cooperation

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, WAMUL, Warehouse/ Rural Godowns, etc. by Cooperation Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, storm, pest/rodent attack, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), AH&V, FCS&CA Depts., Fire Services.	NAPCC ⁵⁹ , INDC ⁶⁰ , SDG-9 ⁶¹ , SDG-11 ⁶²

59. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

60. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

61. Reference: UN (<https://sdgs.un.org/goals/goal9>)

62. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	2. Conduct safety audit of all offices, WAMUL, Warehouse/Rural Godowns, etc. by the Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, pest/rodent attack, storm, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), AH&V, FCS&CA Depts., Fire Services.	NAPCC, INDC, SDG-9, SDG-11, PMTPA-4
Priority 1: Understanding Disaster Risk	3. Hazard identification and vulnerability analysis - Conduct study to identify risks faced by offices, WAMUL Warehouse/ rural Godowns, etc. and recommend actions for all districts of Assam.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with Universities & Technical Institutes.	SDG-9, PMTPA-4
	4. GIS/GPS Mapping of all Departmental infrastructure (offices, Warehouse/ Godowns, etc.) and develop a database categorising them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	<ul style="list-style-type: none"> Proposed under the annual plan for rural godowns Database available ASWC Available human resources for collecting GPS coordinates. 	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMTPA-5
	5. GIS/GPS Mapping of alternate locations for Warehouse/Rural Godowns in case Departmental infrastructure is damaged by any disaster.	State / District / Sub-District	Medium Term (by 2026)	Available human resources at district level for collection of data related to feasibility of alternate locations, in case of societies under the RCS Directorate.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMTPA-5
	6. GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Department will share the GIS/GPS database upon completion.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response (fire, flood, earthquake, storm, pest/rodent attack, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state level.	Technical support from ASDMA, PWD (B&NH), AH&V, FCS&CA Depts. & Fire Services.	
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	9. Conduct mock-drills based on the Departmental Disaster Management Plan, SOP & Contingency Plans.	District / Sub-District	Short Term (by 2024)	Existing human resource at the district level.	Technical support from ASDMA, AH&V, FCS&CA Depts., Fire Services, NDRF, SDRF.	
Priority 2: Strengthening Disaster Risk Governance	10. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient cooperative & warehouse management & integrate that in the training curriculum for the Department officials.	State / District	Medium Term (by 2026)	<ul style="list-style-type: none"> Existing training programmes conducted by ICM & AASC. Funds available for routine training programmes. 	<ul style="list-style-type: none"> Recommend ICM & AASC to include disaster management in various training modules. Technical support from ASDMA, PWD (B&NH), AH&V, FCS&CA Depts. & Fire Services. 	
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	13. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	14. Digitization of Supply Chain Management (including the movement, storage, etc.).	State / District / Sub-District	Short Term (by 2024)	Existing Human resource and equipment at the state and district level.	<ul style="list-style-type: none"> Issue office order to use IT equipment as compulsory. Training required for field level staff and cooperative societies. Technical support from IT Dept. 	PMPA-5
Priority 3: Investing in DRR for Resilience	15. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, etc.) based on the findings from the safety audit of all offices, WAMUL Warehouse/ Rural Godowns, etc. in phased manner. (Well-planned buildings with well laid out entry and exit points, escape routes in case of fire, storms, earthquakes, or other disasters.)	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), AH&V, FCS&CA Depts. & Fire Services.	PMPA-1
	16. Develop Disaster Mitigation Project Proposals for Cooperation in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing Human resource to prepare plans.	Technical support from ASDMA.	PMPA-1
	17. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (of offices, WAMUL Warehouse/ Rural Godowns, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing Human resource and hardware to prepare plans, reports, etc.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	18. Undertake regular pest/rodent control measures and introduce advanced technologies/techniques for preservation of food and civil supplies.	State / District	Medium Term (by 2026)	Existing Human resource at the state and district level	Training required	
	19. Promote solar-based electrification & rainwater harvesting in all offices, WAMUL, Warehouse/Rural Godowns, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from APDCL, Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ⁶³

63. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	20. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient cooperative & warehouse management.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing training programmes conducted by ICM and AASC. Funds available for routine training programmes Human resource available for monitoring 	Technical support from ASDMA, AASC.	SDG-9, SDG-13, PMTPA-8
	21. Orientation of staff at Warehouse, Rural Godowns as per the Departmental DM Plan SOPs and Contingency Plans for emergency response.	District / Sub-District	Medium Term (by 2026)	<ul style="list-style-type: none"> Existing training programmes conducted by ICM and AASC. Funds available for routine training programmes 	Technical support from ASDMA, PWD (B&NH), AH&V, FCS&CA Depts. & Fire Services.	SDG-9, SDG-13, PMTPA-8
	22. Develop IEC materials on integrating DRR and Climate Change Adaptation in cooperative & warehouse management.	State / District	Short Term (by 2024)	Availability of funds for awareness activities for cooperatives.	Technical support from ASDMA, Info & PR Dept.	
	23. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation in cooperative & warehouse management for all offices, & share through media for public awareness.	State / District	Short Term (by 2024)	Availability of funds for awareness activities for cooperatives	Technical support from ASDMA, Info & PR Dept.	SDG-9, SDG-13, PMTPA-7
	24. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, Warehouse/Godowns, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-9, SDG-11
	25. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept., NDRF, SDRF & Fire Services.	SDG-9, SDG-11

3.2.3 Department of Environment and Forest

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Under-standing Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, outposts, etc. by Environment & Forest Department to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ⁶⁴ , INDC ⁶⁵ , SDG-11 ⁶⁶
	2. Conduct safety audit of all offices, outposts, etc. by the Department to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct study to identify risks faced by National Parks, Reserved Forests, Protected Areas and animals residing in them, and recommended actions for all districts of Assam.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with Universities and Technical Institutes.	NAPCC, INDC, SDG-15 ⁶⁷ , PMTPA-4
	4. Involve local communities while conducting study to identify risks faced by National Parks, Reserved Forests, Protected Areas, and animals residing in them.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with ASDMA, P&RD Dept., NGOs working on environmental issues.	SDG-13 ⁶⁸ , PMTPA-3
	5. GIS/GPS Mapping of all Departmental infrastructure, National Parks, Reserved Forests, Protected Areas and develop a database categorizing them as per their vulnerability (eco-sensitive, flood prone, forest fire prone, proximity to industries, etc.).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMTPA-5
	6. GIS/GPS Mapping of Raised highlands in National Parks, Reserved Forests and Protected Areas for wild animals to take refuge during floods.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMTPA-5

64. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

65. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

66. Reference: UN (<https://sdgs.un.org/goals/goal11>)

67. Reference: UN (<https://sdgs.un.org/goals/goal15>)

68. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	7. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	8. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response (floods, forest fire, storm, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AH&V Dept., NDRF, SDRF, Fire Services.	SDG-13
	9. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	10. Develop/update District/National Parks/Reserved Forests/Protected Areas level disaster management plans and conduct mock-drills.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AH&V Dept., NDRF, SDRF, Fire Services.	SDG-13
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMPA-1
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMPA-1
	13. Formation and strengthening of the Joint Forest Management Committees and Eco-Development Committees for forest and wildlife conservation.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.		SDG-15, PMPA-8
	14. Revise/update State Action Plan on Climate Change (SAPCC) in line with Intended Nationally Determined Contributions (INDC), NAPCC and allocation of funds for implementation.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Consultation with all Departments, UN Agencies, relevant Universities & NGOs.	NAPCC, INDC, SDG-13
	15. Coordinate with UDD, GDD, IT Dept. & lead in developing a policy on safe waste recycling & disposal, including e-waste.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Cooperation of the concerned Depts.	NAPCC, INDC, SDG-11

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	16. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient forest & environment management & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC), UN Agencies.	NAPCC, INDC, SDG-15
Priority 3: Investing in DRR for Resilience	17. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of all offices, outposts, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services, Universities, NGOs.	NAPCC, INDC, SDG-15, PMTPA-1
	18. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-15, PMTPA-1
Priority 3: Investing in DRR for Resilience	19. Develop Disaster Mitigation Project Proposals for Environment and Forest in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	20. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (offices, outposts, etc.) due to any disaster, injury/death of animals, staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept.	PMTPA-5
	21. Set up 'Air Operation Wing', using helicopters (including Annual Maintenance Contract), to rescue to locate and airlift injured animals to the rescue centres for timely treatment.	State / District	Long Term (by 2030)	Dept. Annual Plan.	Support from NDRF, Army, Air Force, DGCA.	
	22. Procure & deploy drones (including Annual Maintenance Contract) to monitor & prevent poaching & illegal logging in National Parks, Reserved Forests and Protected Areas.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Info. & PR Dept., DGCA.	PMTPA-5
	23. Procure & deploy customized multi-purpose all-terrain vehicles (including Annual Maintenance Contract) for patrolling, animal/human ambulance & forest fire fighting.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Transport Dept., AH&V Dept., Health Dept.	

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	24. Construction of roads in National Parks, Reserved Forests and Protected Areas for monitoring and prevention of poaching.	State / District / Sub-District	Medium Term (by 2026)	State Compensatory Afforestation Fund Management and Planning Authority (State CAMPA)	Technical support from PWD (Roads).	SDG-15
	25. Construction of Raised highlands in National Parks, Reserved Forests and Protected Areas for wild animals to take refuge during floods.	State / District / Sub-District	Medium Term (by 2026)	State CAMPA	Technical support from ASDMA, PWD (Roads).	SDG-15
	26. Reforestation of degraded forest lands.	District / Sub-District	Long Term (by 2030)	Plantation Project, Nursery Project, etc.		NAPCC, INDC, SDG-15
	27. Coordinate with concerned Departments (UDD, GDD, Revenue & DM Dept.) to protect & restore wetland eco-system in the state.	State / District / Sub-District	Long Term (by 2030)	State CAMPA	Cooperation of the concerned Depts.	NAPCC, INDC, SDG-15
	28. Coordinate with concerned Departments to increase plantation/afforestation in available spaces in the state including Govt. offices, hotels, hospitals, industries, educational institutes, etc.	State / District / Sub-District	Long Term (by 2030)	State CAMPA	Cooperation of the concerned Depts.	NAPCC, INDC, SDG-15
	29. Promote solar-based electrification & rainwater harvesting in all offices, outposts, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁶⁹
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	30. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient forest & environment management.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC, UN Agencies.	NAPCC, INDC, SDG-15, PMTPA-8
	31. Training of Forest Officers, Guards, Joint Forest Management Committees, Eco-Development Committees, etc. on Forest Fire Prevention & Management.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from NDRF, Fire Services.	PMTPA-8
	32. Develop IEC materials on DRR, Climate Change, benefits of Afforestation, Wildlife Conservation, Forest Fire Prevention & Management, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept., UN Agencies.	

69. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	33. Print and distribute IEC materials on DRR, Climate Change, benefits of Afforestation, Wildlife Conservation, etc. for all Forest Guards, Joint Forest Management Committees, Eco-Development Committees, etc.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-15
	34. Organize awareness programmes on DRR, Climate Change, benefits of Afforestation, Wildlife Conservation, etc. for local communities settled in the fringes of National Parks, Reserved Forests and Protected Areas and share information through radio, print, TV, and social media.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Info & PR Dept.	NAPCC, INDC, SDG-15, PMTPA-7
	35. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, outposts, etc. (including Annual Maintenance Contract).	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Fire Services.	
	36. Procure engine boats, life-vests, rescue equipment, etc. for emergency response in case of any disaster (including Annual Maintenance Contract).	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept., NDRF, SDRF, Fire Services.	

3.2.4 Department of Industries & Commerce

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, DICC's, Trade Centres, industrial units, etc. by Industries & Commerce Department to identify the structural vulnerabilities, hazard (fire, flood, earthquake, pandemic, etc.) and security threats, and recommend possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ⁷⁰ , INDC ⁷¹ , SDG-9 ⁷²

70. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drganmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

71. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

72. Reference: UN (<https://sdgs.un.org/goals/goal9>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	2. Conduct safety audit of all offices, DICC, Trade Centres, industrial units, etc. by Industries & Commerce Department to identify the structural vulnerabilities, hazard (fire, flood, earthquake, pandemic, etc.) and security threats, and recommend possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	<ul style="list-style-type: none"> Compliance by the industrial units. Technical support from ASDMA, PWD (B&NH), Fire Services. 	NAPCC, INDC, SDG-9, PMTPA-4
	3. GIS/GPS Mapping of all Departmental infrastructure (offices, DICC, Trade Centres, industrial units, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	<ul style="list-style-type: none"> Compliance by the industrial units. Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC. 	PMPA-5
	4. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	5. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (fire, flood, earthquake, pandemic, security threats, etc.) for Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, PWD (B&NH), Home Dept. & Fire Services.	SDG-9, SDG-12 ⁷³
	6. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	7. Conduct regular mock-drills based on Departmental Disaster Management Plan, SOP & Contingency Plans.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Home Dept., NDRF, SDRF, & Fire Services.	
	8. Support private sector players in developing their Business Continuity Plans in order to build their resilience to disasters.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	<ul style="list-style-type: none"> Technical support from ASDMA. Collaboration with FICCI, CII, etc. 	SDG-9, SDG-12, PMTPA-8
	9. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the Departmental projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA	NAPCC, INDC, SDG-9, SDG-12, PMTPA-1

73. Reference: UN (<https://sdgs.un.org/goals/goal12>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	10. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-9, SDG-12, PMTPA-1
	11. Form state-district level joint monitoring teams to assess and monitor disaster preparedness, response, recovery and mitigation in Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	12. Develop/update content on integration of DRR & Climate Change Adaptation in Industrial Safety, Security & disaster resilience, & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	13. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities, hazard (fire, flood, earthquake, pandemic, etc.) and security threats, based on the findings from the safety audit of all offices, DICCs, Trade Centres, industrial units, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Police, Fire Services.	NAPCC, INDC, SDG-9, SDG-12, PMTPA-1
	14. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-9, SDG-12, PMTPA-1
	15. Develop Disaster Mitigation Project Proposals for Industries & Commerce in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource to prepare proposals.	Technical support from ASDMA.	PMTPA-1
	16. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, staff/workers injury/death on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource and hardware to prepare reports.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	17. Promote solar-based electrification & rain-water harvesting in all offices, DICCs, Trade Centres, industrial units, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept, Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ⁷⁴
	18. Encourage private sector players in adopting environment friendly and renewable energy technologies in their businesses.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Power Dept, Sci. & Tech. Dept.	SDG-9, SDG-12

74. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	19. Conduct training for the Industries & Commerce Department officials on Industrial Safety & Security.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing training programmes conducted by AASC. Funds available for routine training programmes. Human resource available for monitoring. 	Technical support from ASDMA, PWD (B&NH), Police, Fire Services.	NAPCC, INDC, SDG-9, SDG-12, PMTPA-8
	20. Develop IEC materials on integrating DRR and Climate Change Adaptation for Industrial Safety, Security & disaster resilience.	State / District	Short Term (by 2024)	Availability of funds.	Technical support from ASDMA, Info & PR Dept.	
	21. Print and distribute IEC integrating DRR and Climate Change Adaptation for Industrial Safety, Security & disaster resilience for all offices, DICC, Trade Centres, industrial units, etc. & also share through media for public awareness.	State / District	Short Term (by 2024)	Availability of funds.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-9, SDG-12, PMTPA-7
	22. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, DICC, Trade Centres, industrial units, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	
	23. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept., Fire Services.	

3.2.5 Department of Information & Public Relations

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, etc. under the Information & Public Relations Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	2. Conduct safety audit of all offices, etc. under the Department to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and recommend possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	PMTPA-4
	3. Conduct regular surveys/studies to identify the level of public awareness regarding disaster preparedness, response, recovery, and mitigation.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Admin. Reforms & Training Dept.	SDG-13 ⁷⁵ , SDG-17 ⁷⁶ , PMTPA-9
	4. GIS/GPS Mapping of all Departmental infrastructure and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST & ASTEC.	PMTPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (cyber-attack, fake news, false rumours, fire, floods, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-13
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-13, PMTPA-1
	9. Form state-district level teams to document the learnings/success stories on the integration of disaster preparedness, response, recovery, and mitigation components by various Departments in their projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-9

75. Reference: UN (<https://sdgs.un.org/goals/goal13>)76. Reference: UN (<https://sdgs.un.org/goals/goal17>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	10. Develop/update content on the importance of integrating DRR & Climate Change Adaptation in various Departmental schemes and integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	11. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, etc.) based on the findings from the safety audit of all offices, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	SDG-13, PMTPA-1
	12. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers/journalists on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	13. Develop and migrate to a secure online portal to maintain journalists' database, application process for medical welfare, pension, one-time ex-gratia, etc. linked with Aadhaar.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, IT Dept.	SDG-8 ⁷⁷ , PMTPA-5
	14. Promote solar-based electrification & rainwater harvesting in the offices in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁷⁸
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	15. Training of the Department officials on the importance of integrating DRR & Climate Change Adaptation in various Departmental schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-8
	16. Develop mass awareness campaign on DRR and Climate Change Adaptation Fixed Loudspeaker System (FLS), Street Plays, Print/TV/social media, etc.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-13, PMTPA-7
	17. Support all Departments in developing IEC materials on integrating DRR and Climate Change Adaptation in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Request from concerned Depts.	

77. Reference: UN (<https://sdgs.un.org/goals/goal8>)78. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	18. Support all Departments in printing and distributing IEC materials, on integrating DRR and Climate Change Adaptation in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Request from concerned Depts.	SDG-13, PMTPA-7
	19. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-13

3.2.6 Department of Information Technology

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, data centres, CSCs, services, etc. by Information Technology to identify the structural vulnerabilities, hazard (fire, flood, earthquake, etc.) & cyber-attack risks, & possible remedial measures (retrofitting, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	IT & Electronics Policy 2017 ⁷⁹	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC ⁸⁰ , INDC ⁸¹ , SDG-9 ⁸² , SDG-11 ⁸³
	2. Conduct safety audit of all offices, data centres, CSCs, services, etc. to identify the structural vulnerabilities, hazard (fire, flood, earthquake, etc.) & cyber-attack risks, & recommend possible remedial measures (retrofitting, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	IT & Electronics Policy 2017	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-9, SDG-11, PMTPA-4
	3. Support all Government Departments in assessing the vulnerabilities in their online database, MIS portals, etc.	State / District / Sub-District	Medium Term (by 2026)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	Request from the concerned Depts.	SDG-9, SDG-11, PMTPA-5

79. Reference: IT Dept. (https://ditec.assam.gov.in/sites/default/files/swf_utility_folder/departments/ditec_amtron_in_oid_5/portlet/level_1/files/IT-Policy%202017.pdf)

80. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

81. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

82. Reference: UN (<https://sdgs.un.org/goals/goal9>)

83. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	4. Conduct a survey to identify all the obsolete ICT equipment currently in possession of the Government Departments. Share the report with Chief Secretary, Env. & Forest Dept., GDD, UDD & ASDMA.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	Cooperation of all Depts.	NAPCC, INDC, SDG-11
	5. GIS/GPS Mapping of all offices, data centres, etc. and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	6. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans/Business Continuity Plan for Emergency Response (fire, flood, earthquake, cyber-attack, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	Technical support from ASDMA, Fire Services, NDRF, SDRF.	
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Dept. Annual Plan. 	Technical support from Finance Dept., ASDMA.	PMTPA-1
	9. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	Technical support from ASDMA.	SDG-11, PMTPA-1
	10. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	Technical support from ASDMA.	SDG-11, PMTPA-1
	11. Conduct regular mock drills based on the Disaster Management Plan, SOPs & Contingency Plans/ Business Continuity Plan in the offices, data centres, CSCs, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Fire Services, NDRF, SDRF.	SDG-11

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	12. Support Env. & Forest Dept., GDD & UDD in developing a policy on e-waste safe recycling & disposal.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	Cooperation of the concerned Depts.	NAPCC, INDC, SDG-11
	13. Support all Government Departments in developing and managing a secure online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Medium Term (by 2026)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	<ul style="list-style-type: none"> Cooperation of the concerned Depts. Technical support from ASDMA. 	PMPA-5
	14. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	15. Develop/update content on integration of DRR & Climate Change Adaptation in disaster resilient information & communication technology & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-11
Priority 3: Investing in DRR for Resilience	16. Take remedial measures (retrofitting, relocation, closure, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, chemical disaster, etc.) based on the findings from the safety audit of all offices, data centres, CSCs, services, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	<ul style="list-style-type: none"> Existing human resource at the state & district level. IT & Electronics Policy 2017 	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	SDG-11, PMTPA-1
	17. Develop Disaster Mitigation Project Proposals, to ensure disaster resilient information & communication technology, in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	18. Develop and implement a secure online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, infrastructure, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	19. Support all Departments in developing and implementing a secure online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, infrastructure, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Request from concerned Depts.	PMPA-1
	20. Promote solar-based electrification & rainwater harvesting in all offices, data centres, etc. in a phased manner.	State / District	Medium Term (by 2026)	IT & Electronics Policy 2017	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁸⁴
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	21. Training of the Department officials on integrating DRR and Climate Change Adaptation for disaster resilient information & communication technology.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC.	PMPA-8
	22. Develop IEC materials on integrating DRR and Climate Change Adaptation for disaster resilient information & communication technology.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	23. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for disaster resilient information & communication technology for all offices, data centres, etc.	State / District	Short Term (by 2024)	IT & Electronics Policy 2017		NAPCC, INDC, SDG-11
	24. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, data centres, CSCs, etc.	District / Sub-District	Medium Term (by 2026)	IT & Electronics Policy 2017	Technical support from ASDMA & Fire Services.	

84. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.2.7 Department of Mines & Minerals

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, lease holders of mines, industrial sites, etc. by Mines & Minerals Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, chemical disaster, etc.) & possible remedial measures (retrofitting, relocation, closure, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPC ⁸⁵ , INDC ⁸⁶ , SDG-9 ⁸⁷
	2. Conduct safety audit of all offices, lease holders of mines, industrial sites, etc. to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and recommend possible remedial measures (retrofitting, relocation, closure, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-9, PMTPA-4
	3. Involve local community representatives, youth groups, NGOs, etc. for consultation prior to & during the mining & mineral exploration.	District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTA-3
	4. Conduct hydrogeological survey covering the entire state to study the ground water condition & feasibility of ground water utilization. Advice concerned Departments (Env. & Forest, Water Resources, PHE, etc.) for proper exploration & exploitation of ground water for future use.	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.		PMTA-4
	5. Conduct research on efficient & environment friendly sources of energy generation/storage (graphene, solid-state battery, etc.), in collaboration with Science & Technology Dept., Universities & Private Sector. Publish the research findings.	State / District	Long Term (by 2030)	Existing human resource at the state & district level.	Collaboration with Sci. & Tech. Dept., Universities & Private Sector.	PMTA-4
	6. GIS/GPS Mapping of all offices, mines, industrial sites, etc. and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTA-5

85. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

86. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

87. Reference: UN (<https://sdgs.un.org/goals/goal9>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	7. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	8. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans for Emergency Response (fire, flood, earthquake, chemical disaster, etc.) for the Department officials at all levels (State, District, Sub-District) & for mines & industrial sites.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Fire Services, NDRF, SDRF.	SDG-9, SDG-12 ⁸⁸
	9. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	10. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY) 	Technical support from ASDMA.	NAPCC, INDC, SDG-9, SDG-12, PMPA-1
	11. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-9, SDG-12, PMPA-1
	12. Setup a 'Research & Development Wing' within the Department to conduct research on efficient & environmental sources of energy generation, newer & environment friendly technologies in mineral & ground water exploration, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Collaboration with Sci. & Tech. Dept., Universities.	
	13. Conduct regular mock drills based on the Disaster Management Plan, SOPs & Contingency Plans in the offices, mines & industrial sites.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Fire Services, NDRF, SDRF.	

88. Reference: UN (<https://sdgs.un.org/goals/goal12>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	14. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	15. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable mining & mineral use & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	16. Take remedial measures (retrofitting, relocation, closure, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, chemical disaster, etc.) based on the findings from the safety audit of all offices, mines, industrial sites, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-9, SDG-12, PMPA-1
	17. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-9, SDG-12, PMPA-1
	18. Develop Disaster Mitigation Project Proposals, to ensure disaster resilient & sustainable mining & mineral use, in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing human resource at the state & district level. PMKKKY 	Technical support from ASDMA.	PMPA-1
	19. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, mines, industrial sites, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	20. Promote solar-based electrification & rainwater harvesting all offices, mines, industrial sites, mining affected villages, etc. in a phased manner.	State / District	Medium Term (by 2026)	<ul style="list-style-type: none"> Dept. Annual Plan. PMKKKY 	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁸⁹
	21. Training of the Department officials on integrating DRR and Climate Change Adaptation for disaster resilient & sustainable mining & mineral use.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC.	SDG-9, SDG-12, PMPA-8

89. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	22. Develop IEC materials on integrating DRR and Climate Change Adaptation for disaster resilient & sustainable mining & mineral use.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	23. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for disaster resilient & sustainable mining & mineral use for all offices, mines, industrial sites, etc., & share through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-9, SDG-12, PMTPA-7
	24. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, mines, industrial sites, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-9

3.2.8 Department of Power

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all Power infrastructure (offices, grids, transmission lines, transformers, high-tension lines, etc.) to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.), security threats, and possible remedial measures (retrofitting, repair, reconstruction, relocation, etc.) to be taken.	State	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Universities, Technical Institutes, Private Sector.	NAPCC ⁹⁰ , INDC ⁹¹ , SDG-9 ⁹²
	2. Conduct safety audit of all Power infrastructure (offices, grids, transmission lines, transformers, high-tension lines, etc.) to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.), security threats, and recommend possible remedial measures (retrofitting, repair, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Universities, Technical Institutes, Private Sector.	NAPCC, INDC, SDG-9, PMTPA-4

90. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drganmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

91. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

92. Reference: UN (<https://sdgs.un.org/goals/goal9>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	3. GIS/GPS Mapping of all Power infrastructure and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	4. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	5. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (fire, flood, earthquake, pandemic, security threats, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-9, SDG-12 ⁹³
	6. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	7. Conduct regular mock-drills based on Departmental Disaster Management Plan, SOP & Contingency Plans.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, NDRF, SDRF, Police, Fire Services.	
	8. Form state-district level joint monitoring teams to assess and monitor disaster preparedness, response, recovery, and mitigation in Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	9. Nomination of Safety Officer in each Zone, Division and Sub-Division.	State / District	Short Term (by 2024)			PMTPA-8
	10. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-9, PMTPA-1
	11. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-9, PMTPA-1

93. Reference: UN (<https://sdgs.un.org/goals/goal12>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	12. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	13. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient power infrastructure & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Forest Dept., Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-9
Priority 3: Investing in DRR for Resilience	14. Take remedial measures (retrofitting, repair, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, landslide, earthquake, etc.) based on the findings from the safety audit of all Power infrastructure (offices, grids, transmission lines, transformers, high-tension lines, etc.) in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from Universities, Technical Institutes, Private Sector.	PMTPA-1
	15. Integrate disaster resilience (foundation soil testing, site selection, etc.) in the design of the transformer pad, mounting structures, foundation of tower, etc. and ensure that during new construction.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		PMTPA-1
	16. Conversion of LT Bare Conductor to ABC for reduction of theft and public safety.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		
	17. Explore the possibility of funding for disaster resilient Power Infrastructure through PPP mode, CSR, and crowd funding.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Collaboration with FICCI, CII, etc.	
	18. Develop Power Infrastructure Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-1
	19. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, infrastructure, etc.) due to any disaster, staff/workers injury/death on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	20. Identify and include disaster risk financing and risk insurance options for Power infrastructure.	State / District	Long Term (by 2030)	Dept. Annual Plan.		PMPA-2
	21. Procure and deploy handheld VHF Radio sets for communication during emergencies.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		
	22. Promote solar-based electrification & rainwater harvesting in all offices, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁹⁴
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	23. Training of officials (with 3 years or more service remaining) from the Power Dept. on monitoring of Power transmission, services, infrastructure and DRR and formation of state-district level joint monitoring teams.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-8
	24. Develop IEC materials (print/audio/video) on Power Infrastructure and DRR to be used for public safety awareness.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA. Collaboration with UDD, GDD & P&RD Dept., etc.	
	25. Print/broadcast IEC materials on Power Infrastructure and DRR to be used for public safety awareness through newspaper, TV, radio, social media, etc.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with ASDMA, NGOs, etc.	PMPA-7
	26. Preposition emergency response items (fire extinguishers, sand, etc.) and equipment in all Power facilities to restore Power infrastructure in case they are damaged by any disaster.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Fire Services.	
	27. Mark high flood level in all electrical poles, etc. in flood prone areas.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.		
	28. Procurement of adequate no. of PPE kits and safety equipment for frontline workers.	State / District	Short Term (by 2024)	Dept. Annual Plan.		
	29. Adapt global and national best practices for risk informed Power infrastructure preparedness, response, and recovery.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Universities, Technical Institutes, Private Sector.	PMPA-9

94. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	30. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-9

3.2.9 Department of Public Works (Buildings & National Highway)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Under-standing Disaster Risk	1. Issue departmental order to conduct safety audit of all PWD (B&NH) infrastructure (offices, public buildings, roads, etc.) to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	State	Short Term (by 2024)	Dept. Annual Plan.		NAPCC ⁹⁵ , IND ⁹⁶ , SDG-11 ⁹⁷
Priority 1: Understanding Disaster Risk	2. Conduct safety audit of all PWD (B&NH) infrastructure (offices, public buildings, roads, etc.) to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Universities, Technical Agencies, Private Sector.	NAPCC, INDC, SDG-11, PMTPA-4
	3. GIS/GPS Mapping of all PWD (B&NH) infrastructure and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMPA-5
	4. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5

95. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/dmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

96. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

97. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	5. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response (flood, earthquake, erosion, landslides etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	6. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	7. Mandatory integration of DRR (including Eco-DRR) & Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMPA-1
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMPA-1
	9. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	10. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient buildings & national highway & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC), Universities.	NAPCC, INDC, SDG-11
Priority 3: Investing in DRR for Resilience	11. Take remedial measures (retrofitting, demolition, reconstruction, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of all PWD (B&NH) infrastructure in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from Universities, Technical Institutes, Private Sector.	PMPA-1

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	12. Explore the possibility of funding for disaster resilient Roads Infrastructure through PPP mode, CSR, and crowd funding.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Collaboration with FICCI, CII, etc.	
	13. Develop Roads Infrastructure Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-1
	14. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, infrastructure, etc.) due to any disaster, staff/workers injury/death on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	15. Identify and include disaster risk financing and risk insurance options for PWD (B&NH) infrastructure.	State / District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from Banks, Insurance Companies.	PMTPA-2
	16. Promote solar-based electrification & rainwater harvesting in all offices, Dept. infrastructure, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ⁹⁸
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	17. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient buildings & national highway.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-8
	18. Develop IEC materials on Road Safety, Infrastructure and DRR to be used in village, Panchayat and District level.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Transport Dept. & P&RD Dept.	
	19. Print IEC materials on Road Safety, Infrastructure and DRR to be used in village, Panchayat and District level & also share it through media for public awareness.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info. & PR Dept.	PMTPA-7

98. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	20. Preposition emergency response kits with essential supplies and equipment to restore Road's infrastructure in case they are damaged by any disaster.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		
	21. Adapt global and national best practices for risk informed Road's infrastructure preparedness, response, and recovery.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from universities.	PMPA-9
	22. Procurement of adequate no. of PPE kits and safety equipment for front-line workers.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept.	
	23. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11

3.2.10 Department of Public Works (Roads)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all PWD (Roads) infrastructure (offices, roads, bridges, bundhs, etc.) to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	State	Short Term (2024)	Dept. Annual Plan.		NAPCC ⁹⁹ , INDC ¹⁰⁰ , SDG-11 ¹⁰¹
	2. Conduct safety audit of all PWD (Roads) infrastructure (offices, roads, bridges, bundhs, etc.) to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (2026)	Dept. Annual Plan.	Technical support from Universities, Technical Institutes, Private Sector.	NAPCC, INDC, SDG-11, PMPA-4

99. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

100. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

101. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	3. GIS/GPS Mapping of all PWD (Roads) infrastructure and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Short Term (2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMPA-5
	4. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (2026)		Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	5. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response (flood, earthquake, erosion, landslides etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	6. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	7. Mandatory integration of DRR and Climate Change Adaptation measures during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMPA-1
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/ Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMPA-1
	9. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	10. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient roads & bridges & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC), Universities.	NAPCC, INDC, SDG-11

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	11. Take remedial measures (retrofitting, demolition, reconstruction, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of all PWD (Roads) infrastructure in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from Universities, Technical Institutes, Private Sector.	PMTPA-1
	12. Explore the possibility of funding for disaster resilient Roads Infrastructure through PPP mode, CSR, and crowd funding.	State / District	Medium Term (2026)	Dept. Annual Plan.	Collaboration with FICCI, CII, etc.	
	13. Develop Roads Infrastructure Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-1
	14. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, infrastructure, etc.) due to any disaster, staff/workers injury/death on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	15. Identify and include disaster risk financing and risk insurance options for PWD (Roads) infrastructure.	State / District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from Banks, Insurance Companies.	PMTPA-2
	16. Promote solar-based electrification & rainwater harvesting in all offices, Dept. infrastructure, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁰²
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	17. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient roads & bridges.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-8
	18. Develop IEC materials on Road Safety, Infrastructure and DRR to be used in village, Panchayat and District level.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Transport Dept. & P&RD Dept.	

102. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	19. Print IEC materials on Road Safety, Infrastructure and DRR to be used in village, Panchayat and District level & share it through media for public awareness.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info. & PR Dept.	PMPA-7
	20. Preposition emergency response kits with essential supplies and equipment to restore Road's infrastructure in case they are damaged by any disaster.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		
	21. Adapt global and national best practices for risk informed Road's infrastructure preparedness, response, and recovery.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Universities.	PMPA-9
	22. Procurement of adequate no. of PPE kits and safety equipment for frontline workers.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept.	
	23. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11

3.2.11 Department of Science & Technology

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, Guwahati Biotech Park, Planetarium, Solar Power Plants, etc. by Science & Technology Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, biohazard, etc.), & possible remedial measures (retrofitting, relocation, closure, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Health Dept., Fire Services.	NAPCC ¹⁰³ , INDC ¹⁰⁴ , SDG-10 ⁵ , SDG-11 ¹⁰⁶

103. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

104. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

105. Reference: UN (<https://sdgs.un.org/goals/goal9>)

106. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	2. Conduct safety audit of all offices, Guwahati Biotech Park, Planetarium, Solar Power Plants, etc. to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, biohazard, etc.), & recommend possible remedial measures (retrofitting, relocation, closure, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Health Dept., Fire Services.	NAPCC, INDC, SDG-9, SDG-11, PMTPA-4
	3. Conduct a study to identify the current usage, challenges & scope for solar/renewable sources of energy in Assam. Share the report with Chief Secretary, Env. & Forest Dept., Power Dept., Mines & Minerals Dept., GDD, UDD & ASDMA.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Cooperation of all Depts.	NAPCC, INDC, SDG-7 ¹⁰⁷ , PMTPA-4
	4. Conduct research on efficient & environment friendly sources of energy generation/storage (graphene, solid-state battery, etc.), in collaboration with Mines & Minerals Dept., Universities & Private Sector. Publish the research findings.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with Mines & Minerals Dept., Universities & Private Sector.	NAPCC, INDC, SDG-7, PMTPA-4
	5. GIS/GPS Mapping of all offices, Guwahati Biotech Park, Planetarium, Solar Power Plants, etc. & develop a database categorizing them as per disaster & structural vulnerability (safe & unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC.	PMTPA-5
	6. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans for Emergency Response (fire, flood, earthquake, biohazard, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, PWD (B&NH), Health Dept., Fire Services, NDRF, SDRF.	
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	9. Mandatory integration of DRR & Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-11, PMTPA-1

107. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	10. Integrate DRR Roadmap interventions & their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan & budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-11, PMTPA-1
	11. Conduct regular mock drills based on the Disaster Management Plan, SOPs & Contingency Plans in the offices, Guwahati Biotech Park, Planetarium, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Fire Services, NDRF, SDRF.	SDG-11
	12. Support Env. & Forest Dept., GDD & UDD in developing a policy on e-waste safe recycling & disposal.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Cooperation of the concerned Depts.	NAPCC, INDC, SDG-11, PMTPA-1
	13. Form state-district level joint monitoring teams to assess & monitor the integration of disaster preparedness, response, recovery & mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	14. Develop/update content on integration of DRR & Climate Change Adaptation in disaster resilient & sustainable science & technology development & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-11
Priority 3: Investing in DRR for Resilience	15. Take remedial measures (retrofitting, relocation, closure, etc.) against the identified structural vulnerabilities & hazard risks (fire, flood, earthquake, bio-hazard, etc.) based on the findings from the safety audit of all offices, Guwahati Biotech Park, Planetarium, Solar Power Plants, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	SDG-11, PMTPA-1
	16. Develop Disaster Mitigation Project Proposals, to ensure disaster resilient & sustainable science & technology development, in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	17. Develop & implement a secure online reporting system (MIS) for documenting damage & loss related to Departmental assets (office, equipment, laboratory, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	18. Promote solar-based electrification & rainwater harvesting in all offices, Guwahati Biotech Park, Planetarium, etc. in a phased manner.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from Power.	NAPCC, INDC, SDG-7

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	19. Training of the Department officials on integrating DRR & Climate Change Adaptation for disaster resilient sustainable science & technology development.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC.	NAPCC, INDC, SDG-11, PMTPA-8
	20. Develop IEC materials on integrating DRR & Climate Change Adaptation for disaster resilient sustainable science & technology development.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	21. Print & distribute IEC materials on integrating DRR & Climate Change Adaptation for disaster resilient sustainable science & technology development for all offices, Guwahati Biotech Park, Planetarium, etc. & share through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-11, PMTPA-7
	22. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, Guwahati Biotech Park, Planetarium, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11

3.2.12 Department of Soil Conservation

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of the Department infrastructure to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, reconstruction, demolition, etc.) to be taken.	State	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC ¹⁰⁸ , INDC ¹⁰⁹ , SDG-13 ¹¹⁰ , SDG-15 ¹¹¹
	2. Conduct safety audit of the Department infrastructure to identify the structural vulnerabilities, hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, reconstruction, demolition, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	PMPA-4

108. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

109. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

110. Reference: UN (<https://sdgs.un.org/goals/goal13>)

111. Reference: UN (<https://sdgs.un.org/goals/goal15>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	3. Commission and conduct scientific research related to soil erosion, reclamation of barren land for afforestation and agriculture, etc.	State	Short Term (by 2024)	Prime Minister Krishi Sinchayee Yojna	Technical support from ASDMA, Forest Dept., Agri. Dept., Universities.	PMTPA-4
	4. GIS/GPS Mapping (including photos) of the Department infrastructure and develop a database categorising them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Short Term (by 2024)	Prime Minister Krishi Sinchayee Yojna	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	5. Share the GIS/GPS Database to be integrated with other Departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans on emergency response (floods, erosion, drought, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-15, PMTPA-1
	9. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-15, PMTPA-1
	10. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	11. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient soil conservation & management & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Forest Dept., Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-15

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	12. Take remedial measures (retrofitting, reconstruction, demolition, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of the Department infrastructure in phased manner.	District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC, INDC, SDG-15, PMTPA-1
	13. Explore the possibility of funding for disaster resilient infrastructure through PPP mode, CSR, and crowd funding.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Collaboration with FICCI, CII, etc.	
	14. Develop Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	15. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (offices, assets, infrastructure, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Prime Minister Krishi Sinchayee Yojna	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	16. Identify and include disaster risk financing and risk insurance options for the infrastructure.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from NABARD, Banks, Insurance Companies.	PMPA-2
	17. Promote solar-based electrification & rainwater harvesting in all offices, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹²
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	18. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient soil conservation & management.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, AASC.	NAPCC, INDC, SDG-15, PMTPA-8
	19. Based on the learnings after a disaster, take measures such land-use planning, structural standards improvement, etc. in the post disaster recovery/reconstruction planning and implementation.	State / District	Medium Term (by 2026)		Technical support from Revenue Dept., Forest Dept., Universities.	NAPCC, INDC, SDG-15, PMTPA-9
	20. Design and implement awareness programmes for discouraging jhum cultivation, promotion of afforestation, etc. and share information through radio, print, TV, and social media.	State / District	Short Term (by 2024)	Rural Infrastructure Development Fund, Protective Afforestation Scheme	Technical support from ASDMA, Forest, Agri. & Info & PR Depts.	NAPCC, INDC, SDG-15, PMTPA-7

112. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	21. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11 ¹¹³

3.2.13 Department of Sports and Youth Welfare

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, stadiums, sports complexes, youth hostels, etc. by Sports & Youth Welfare Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, pandemic, etc.) and security threats, and recommend possible remedial measures (retrofitting, reconstruction, demolition, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Police, Fire Services.	NAPCC ¹¹⁴ , INDC ¹¹⁵ , SDG-11 ¹¹⁶
	2. Conduct safety audit of all offices, stadiums, sports complexes, youth hostels, etc. by Sports & Youth Welfare Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, pandemic, etc.) and security threats, and recommend possible remedial measures (retrofitting, reconstruction, demolition, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Police, Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Mobilize adolescents and youths from NYKS, NSS, NCC, NGOs working on youth welfare, etc. to identify disaster risks faced by people in villages and urban areas.	State / District / Sub-District	Short Term (by 2024)	Nehru Yuva Kendra Sangathan (NYKS), National Service Scheme (NSS), National Cadet Corps (NCC)	<ul style="list-style-type: none"> Technical support from ASDMA. Cooperation from NYKS, NSS, NCC, NGOs. 	PMTPA-3, PMTPA-8

113. Reference: UN (<https://sdgs.un.org/goals/goal11>)

114. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

115. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

116. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	4. Conduct GIS/GPS Mapping of all Departmental infrastructure (offices, stadiums, sports complexes, youth hostels, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response for the Sports & Youth Welfare Department officials at all levels (State, District, Sub-District), covering fire, floods, earthquake, pandemic, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Police, Fire Services, & PWD (B&NH) Dept.	
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Conduct regular mock-drills based on Departmental Disaster Management Plan, SOP & Contingency Plans.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Home Dept., NDRF, SDRF, Police & Fire Services.	
	9. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	10. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	11. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	12. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient sports facilities & youth welfare services & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-11
	13. Initiate ISO certification process for youth hostels, stadiums, sports complexes, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Technical Agencies.	
Priority 3: Investing in DRR for Resilience	14. Take remedial measures (retrofitting, reconstruction, demolition, etc.) against the identified structural vulnerabilities, hazard risks (fire, flood, earthquake, pandemic, etc.) and security threats, based on the findings from the safety audit of all offices, stadiums, sports complexes, youth hostels, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept. & Fire Services.	NAPCC, INDC, SDG-11, PMTPA-1
	15. Develop Disaster Mitigation Project Proposals for Sports & Youth Welfare in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	16. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets/infrastructure (office, equipment, stadiums, sports complexes, youth hostels, etc.) due to any disaster, staff/workers injury/death on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	17. Promote solar-based electrification & rainwater harvesting in the offices, stadiums, sports complexes, youth hostels, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept, Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹¹⁷
	18. Conduct training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient Sports & Youth Welfare projects/programmes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC.	NAPCC, INDC, SDG-11, PMTPA-8

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	19. Conduct training for NYKS, NSS, NCC, & NGOs working on youth welfare, on disaster preparedness, response, mitigation & climate change adaptation at the community level.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	<ul style="list-style-type: none"> • Technical support from ASDMA. • Collaboration with P&RD Dept., UDD & GDD. 	NAPCC, INDC, SDG-11, PMTPA-8
	20. Develop IEC materials on DRR in Sports & Youth Welfare activities.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	21. Print and distribute IEC materials on DRR in Sports & Youth Welfare activities for all offices, NYKS, NSS, NCC, NGOs working on youth welfare, etc. & also share through media for public awareness.	State / District	Short Term (by 2024)	Nehru Yuva Kendra Sangathan (NYKS), National Service Scheme (NSS), National Cadet Corps (NCC)	Technical support from ASDMA, Info & PR Dept.	PMTPA-7
	22. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, stadiums, sports complexes, youth hostels, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11
	23. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		SDG-11

3.2.14 Department of Transport

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, bus stations, vehicles/boats/ferries under the Department, etc. by Transport Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.), passenger safety, & possible remedial measures (retrofitting, demolition, relocation, replacement, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., UDD, GDD, Fire Services.	NAPCC ¹¹⁸ , INDC ¹¹⁹ , SDG-11 ¹²⁰
	2. Conduct safety audit of all offices, bus stations, vehicles/boats/ferries under the Department, etc. by the Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.), passenger safety, & recommend possible remedial measures (retrofitting, demolition, relocation, replacement, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., UDD, GDD, Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct feasibility study to introduce mass rapid transport system, environment friendly public transport, need for dedicated lane for bicycle commuters, etc. Publish the report in public domain.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with Universities & Technical Institutes.	NAPCC, INDC, SDG-11, PMTPA-4
	4. GIS/GPS Mapping of all Departmental infrastructure (offices, bus stations, vehicles/boats/ferries under the Department, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST & ASTEC.	PMTPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5

118. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

119. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

120. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	6. Develop Department Disaster Management Plan, SOPs & Contingency Plans on emergency response (fire, floods, earthquake, accidents, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Health Dept., Fire Services, NDRF, SDRF.	
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	9. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	10. Conduct regular mock drills based on the Disaster Management Plan, SOPs & Contingency Plans in the offices, mines & industrial sites.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Health Dept., Fire Services, NDRF, SDRF.	
	11. Develop policy for mandatory presence of safety/emergency equipment in tourist vehicles (first-aid kit, fire extinguisher, shovel & chain for SUVs, etc.) before issuing tourist permits.	State / District	Short Term (by 2024)	Dept. Annual Plan.		SDG-11, PMTPA-1
	12. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	13. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient transport system & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	14. Take remedial measures (retrofitting, demolition, relocation, replacement, etc.) against the identified structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.), & passenger safety based on the findings from the safety audit of all offices, bus stations, vehicles/boats/ferries under the Department, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., UDD, GDD, Fire Services.	NAPCC, INDC, SDG-11, PMTPA-1
	15. Develop Disaster Mitigation Project Proposals, to ensure disaster resilient & sustainable & disaster resilient transport system, in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	16. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, bus stations, vehicles, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	17. Procure powerful rescue vessels with crane facility & trained crew for emergencies.	State / District	Short Term (by 2024)	Dept. Annual Plan.		SDG-11
	18. Introduce electric buses, hybrid sailboats (with motor engine), etc. at subsidized rates as public transport modes.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.		SDG-11
	19. Promote solar-based electrification & rainwater harvesting in all offices, bus stations, etc. in a phased manner.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from Power, Sci. & Tech. Depts., UDD, GDD.	NAPCC, INDC, SDG-7 ¹²¹
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	20. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient transport system.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	SDG-11, PMTPA-8
	21. Conduct road safety awareness campaigns through digital, social & print media, street plays, etc. in schools, colleges, universities, public places, etc.	State / District / Sub-District	Long Term (by 2030)	Existing human resource at the state & district level.	Collaboration with PWD (Roads), ASDMA, Info & PR Dept.	SDG-11, PMTPA-7
	22. Develop IEC materials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient transport system.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	

121. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	23. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient transport system for all offices, etc. & share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.		PMPA-7
	24. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, bus stations, vehicles/boats/ferries under the Department, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11

3.2.15 Department of Water Resources

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, embankments, etc. by the Water Resources Department to identify the structural vulnerabilities, hazard risks (flood, erosion, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH).	NAPCC ¹²² , INDC ¹²³ , SDG-6 ¹²⁴ , SDG-11 ¹²⁵
	2. Conduct safety audit of all offices, embankments, etc. by the Department to identify the structural vulnerabilities, hazard risks (flood, erosion, earthquake, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH).	NAPCC, INDC, SDG-6, SDG-11, PMPA-4
	3. Involve local communities while conducting safety audit to identify vulnerable embankments.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with NGOs.	PMPA-8
	4. Study and analyze the Assam River systems using satellite images, historical data, etc. to identify emerging & potential risks related to flood & erosion.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, IT dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-4

122. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

123. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

124. Reference: UN (<https://sdgs.un.org/goals/goal6>)

125. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	5. GIS/GPS Mapping of all Departmental embankments and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	6. Share GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Department Disaster Management Plan, SOP & Contingency Plan for emergency response (floods, erosion, earthquake, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	9. Conduct mock-drills based on Departmental Disaster Management Plan.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from Dist. Admin., ASDMA, NDRF, SDRF.	
	10. Form state-district level joint monitoring teams to assess and monitor disaster preparedness, response, recovery, and mitigation in the Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13 ¹²⁶ , PMPA-1
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMPA-1
	13. Setup & maintain systems to give access to early warning messages on flood to all the Departments.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, IMD, NESAC.	SDG-13, PMPA-5

126. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	14. Develop/update content on DRR & Climate Change in water resources activities and integrate that in the training curriculum for the Department officials.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA & IMD.	
Priority 3: Investing in DRR for Resilience	15. Take remedial measures (retrofitting, reconstruction, etc.) against the identified structural vulnerabilities and hazard risks (flood, erosion, earthquake, etc.) based on the findings from the safety audit of all offices, embankments, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH).	NAPCC, INDC, SDG-6, SDG-11, PMTPA-1
	16. Develop Disaster Mitigation Project Proposals for sustainable water resource management in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	17. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, embankments, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	18. Promote solar-based electrification & rainwater harvesting in the offices and Departmental projects in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹²⁷
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	19. Training of the Department officials on DRR and Climate Change Adaptation in water resources activities.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-13, PMTPA-8
	20. Develop IEC materials on DRR and Climate Change Adaptation in water resources activities.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	21. Print and distribute IEC materials on DRR and Climate Change Adaptation in water resources activities for all offices & also share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.		PMTPA-7
	22. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11
	23. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		SDG-11

127. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.3 Resilient Cities & Towns

In this theme, the stakeholders will focus on amenities such as water, housing, roads, public spaces, etc. in cities and towns that can better handle disasters, absorb the impact of economic, environmental, and social hazards.

3.3.1 Department of Cultural Affairs

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, ancient monuments, heritage buildings, museums, libraries, etc. by Cultural Affairs Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, pandemic, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ¹²⁸ , INDC ¹²⁹ , SDG-11 ¹³⁰
	2. Conduct safety audit of all offices, ancient monuments, heritage buildings, museums, libraries, etc. by the Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, pandemic, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMT-PA-4
	3. Conduct study to identify risks faced by ancient archaeological sites, monuments, remains of historical/archaeological importance and recommended actions for all districts of Assam.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with Universities, Technical Institutes.	SDG-11, PMT-PA-4
	4. Involve local communities while conducting study to identify risks faced by ancient archaeological sites, monuments, remains of historical/archaeological importance.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with ASDMA, P&RD Dept., UNESCO, NGOs working on cultural heritage.	SDG-11, PMT-PA-8
	5. Conduct study to identify traditional coping mechanisms of people in Assam against various hazards and climate change.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with ASDMA, Universities.	SDG-13 ¹³¹ , PMTPA-4

128. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

129. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

130. Reference: UN (<https://sdgs.un.org/goals/goal11>)

131. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	6. GIS/GPS Mapping of all Departmental infrastructure (ancient monuments, heritage buildings, museums, libraries, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	7. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	8. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans on emergency response (fire, floods, earthquake, pandemic, stampede, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Fire Services, Police.	SDG-13
	9. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	10. Develop safety & security plan for public venues such as Srimanta Sankardev Kalakshetra, Rabindra Bhawan, Jyoti Chitraban, theatres, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from Dist. Admin., ASDMA, Fire Services, Police.	
	11. Conduct mock-drills based on Departmental Disaster Management Plans, SOPs & Contingency Plans.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from Dist. Admin., ASDMA, NDRF, SDRF, Fire Services, Police.	SDG-13
	12. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	13. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	14. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	15. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient library services, museum, archaeology, & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-13
Priority 3: Investing in DRR for Resilience	16. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, pandemic, etc.) based on the findings from the safety audit of all offices, ancient monuments, heritage buildings, museums, libraries, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	SDG-11, PMT-PA-1
	17. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMT-PA-1
	18. Develop Disaster Mitigation Project Proposals for archaeological monuments, museums, libraries, etc. in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-11, PMT-PA-1
	19. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (offices, ancient monuments, heritage buildings, museums, libraries, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMT-PA-5
	20. Installation of seismometers and structural monitoring systems in all ancient monuments and heritage buildings for monitoring of earthquake vibration.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH).	SDG-11, PMT-PA-5
	21. Undertake regular pest-control measures and introduce advanced technologies/ techniques for preservation.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Health Dept.	SDG-11
	22. Modernize libraries including digitization of rare books. Explore the possibility of subscription-based online access to library resources.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from IT Dept.	
23. Promote solar-based electrification & rainwater harvesting in all offices, ancient monuments, heritage buildings, museums, libraries, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept., Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹³²	

132. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	24. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient library services, museum, archaeology.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC.	NAPCC, INDC, SDG-13, PMT-PA-8
	25. Develop IEC materials on integrating DRR and Climate Change Adaptation in library services, museum, & archaeology.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-13
	26. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation in library services, museum, & archaeology for all offices, museums and tourist information centres, & share through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with ASDMA, Info & PR, P&RD Depts., NGOs.	NAPCC, INDC, SDG-13, PMT-PA-7
	27. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, ancient monuments, heritage buildings, museums, libraries, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	NAPCC, INDC, SDG-13
	28. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept., Fire Services.	

3.3.2 Department of Guwahati Development (To be implemented by Department of Housing and Urban Affairs)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, public buildings, drainage, piped water supply schemes, schools, hospitals, etc. by Guwahati Development Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, pandemic, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / GMC/ GMDA/ GM-DWSB/ GJB	Short Term (by 2024)	Dept. Annual Plan.	<ul style="list-style-type: none"> Database of existing building/ infrastructures. Technical support from Dist. Admin., ASDMA, PWD (B&NH) Dept., Fire Services. 	NAPCC ¹³³ , INDC ¹³⁴ , SDG-11 ¹³⁵

133. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

134. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

135. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	2. Conduct safety audit of all offices, public buildings, drainage, piped water supply schemes, schools, hospitals, etc. by the Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, pandemic, etc.) and recommend possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / GMC/ GMDA/ GM-DWSB/ GJB	Medium Term (by 2026)	Dept. Annual Plan.	<ul style="list-style-type: none"> Database of existing building/ infrastructures. Technical support from Dist. Admin., ASDMA, PWD (B&NH) Dept., Fire Services. 	NAPCC, INDC, SDG-11, PMT-PA-4
	3. Integrate risk analysis in all projects and other schemes.	State/ GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Short Term (by 2024)	Existing human resource at the state, GMDA, GMC, GMDWSB, GJB, Guwahati Smart City Ltd.	Technical support from ASDMA, PWD (B&NH), Fire Services, UN Agencies, Universities, Technical Institutes.	NAPCC, INDC, SDG-11, PMT-PA-4
	4. Integrate seismic micro-zonation & special zoning for identified hazard prone areas in the GIS based master plan.	State/ AMRUT/ GMDA	Short Term (by 2024)	Existing human resource at the state, AMRUT, GMDA.	Technical support from ASDMA.	PMT-PA-4
	5. GIS/GPS Mapping of all Departmental infrastructure (offices, public buildings, sewerage, piped water supply schemes, schools, hospitals, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Medium Term (by 2026)	Existing human resource at the state, GMDA, GMC, GMDWSB, GJB, Guwahati Smart City Ltd.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMT-PA-5
	6. GIS/GPS Mapping of open spaces/ safe locations to setup temporary shelter, water, and sanitation facilities in case of any disaster.	State / GMC/ GMDA	Short Term (by 2024)	Already done by DDMA	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMT-PA-5
	7. Share the GIS/GPS Database to be integrated with other departments.	State / GMC/ GMDA	Medium Term (by 2026)	Existing human resource at the state & municipality level.	Technical support from ASDMA.	PMT-PA-5
	8. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans on emergency response (fire, floods, earthquake, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / GMC/ GMDA	Short Term (by 2024)	Existing human resource at the state, GMC, GMDA.	Technical support from ASDMA.	

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	9. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMT-PA-1
	10. Conduct mock-drills Departmental Disaster Management Plan, SOPs & Contingency Plans.	State / GMC / GMDA	Short Term (by 2024)	Existing human resource at the state, GMC, GMDA.	Technical support from ASDMA, NDRF, SDRF, Fire Services.	
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / GMC / GMDA	Short Term (by 2024)	Guwahati Master Plan 2025, Water Bodies Restoration, Atal Mission for Rejuvenation and Urban Transformation (AMRUT)	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMT-PA-1
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / GMC / GMDA	Short Term (by 2024)	Guwahati Master Plan 2025, Water Bodies Restoration, AMRUT	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMT-PA-1
	13. Formulate policy to reduce pollution (air, water, land), increase urban green space and ensure restoration of water bodies in and around towns/cities.	State / GMC / GMDA	Short Term (by 2024)	Guwahati Master Plan 2025, Water Bodies Restoration, AMRUT	Technical support from ASDMA, PWD (B&NH), Fire Services, UN Agencies, Universities, Technical Institutes.	NAPCC, INDC, SDG-6 ¹³⁶ , SDG-11, PMT-PA-1
	14. Coordinate with Transport Dept. & Pollution Control Board to develop a policy on environment sensitive urban transport system to reduce accidents & air pollution.	State / GMC / GMDA	Short Term (by 2024)	Guwahati Master Plan 2025, Guwahati Comprehensive Mobility Plan.	Technical support from ASDMA, Transport Dept., PWD (Roads), PCB, Sci. & Tech. Dept., UN Agencies, Universities, Technical Institutes.	NAPCC, INDC, SDG-11, PMT-PA-1
	15. Coordinate with Pollution Control Board & UDD in developing a policy on safe waste recycling & disposal, including e-waste.	State / GMC / GMDA	Short Term (by 2024)	Dept. Annual Plan.	Cooperation of the concerned Depts.	NAPCC, INDC, SDG-11, PMT-PA-1

136. Reference: UN (<https://sdgs.un.org/goals/goal6>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	16. Form state-municipality level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Short Term (by 2024)	Existing human resource at the state, GMDA, GMC, GMDWSB, GJB, Guwahati Smart City Ltd.		PMTPA-8
	17. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient urban infrastructure, environment sensitive urban transport, protection of wetlands, etc., & integrate that in the training curriculum for the Department officials.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Short Term (by 2024)	Existing human resource at the state, GMDA, GMC, GMDWSB, GJB, Guwahati Smart City Ltd.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-11
Priority 3: Investing in DRR for Resilience	18. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, pandemic, etc.) based on the findings from the safety audit of all offices, public buildings, drainage, piped water supply schemes, schools, hospitals, etc. in phased manner.	State / GMDA/ GMC/ GM-DWSB/ GJB	Long Term (by 2030)	Dept. Annual Plan.	<ul style="list-style-type: none"> Database of existing building/ infrastructures. Technical support from Dist. Admin., ASDMA, PWD (B&NH) Dept., Fire Services. 	NAPCC, INDC, SDG-11, PMTPA-1
	19. Develop Disaster Mitigation Project Proposals for public buildings, sewerage, piped water supply schemes, schools, hospitals, etc. in line with Disaster Risk Mitigation Fund guidelines.	State / GMC/ GMDA	Short Term (by 2024)	Existing human resource at the state, GMC, GMDA.	Technical support from ASDMA.	PMTPA-1
	20. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (offices, public buildings, drainage, piped water supply schemes, schools, hospitals, etc.) due to any disaster, injury/ death of staff on duty, etc., in line with Digital India programme.	State / GMDA/ GMC/ GM-DWSB/ GJB	Short Term (by 2024)	Existing human resource at the state, GMDA, GMC, GMDWSB, GJB.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	21. Setup sewage treatment plants and ensure restoration of water bodies in and around Guwahati.	State / GMDA/ GMC/ GM-DWSB	Medium Term (by 2026)	Guwahati Master Plan 2025, Water Bodies Restoration.	Technical support from Pollution Control Board.	NAPCC, INDC, SDG-11, PMTPA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	22. Setup waste recycling plants and stringent implementation of the ban on single-use plastic products.	State / GMC	Medium Term (by 2026)	Guwahati Master Plan 2025, Water Bodies Restoration	Technical support from Pollution Control Board.	NAPCC, INDC, SDG-11, PMT-PA-1
	23. Develop green space/corridor/urban forests in the Guwahati.	State / GMC/ GMDA	Medium Term (by 2026)	Guwahati Master Plan 2025, AMRUT	Technical support from Forest Dept.	NAPCC, INDC, SDG-11, PMT-PA-1
	24. Develop and implement projects to develop environment sensitive urban transport system (increasing electric bus fleet, odd-even scheme for private vehicles, etc.) to reduce accidents and air pollution.	State / GMC/ GMDA	Short Term (by 2024)	Guwahati Master Plan 2025, Guwahati Comprehensive Mobility Plan.	Technical support from Transport Dept.	NAPCC, INDC, SDG-11, PMT-PA-1
	25. Develop and implement projects to improve footpaths and dedicated bicycle lanes.	State / GMC/ GMDA	Medium Term (by 2026)	Guwahati Master Plan 2025, Guwahati Comprehensive Mobility Plan.	Technical support from Transport Dept., PWD (Roads).	NAPCC, INDC, SDG-11, PMT-PA-1
	26. Promote solar-based electrification & rainwater harvesting in the offices, public buildings, piped water supply schemes, schools, hospitals, etc.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept., Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹³⁷
	27. Creation of open space, for temporary accommodation of affected people in the time of disaster.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Medium Term (by 2026)	Guwahati Master Plan 2025.	Revenue & DM Dept. for identification & allotment of land.	NAPCC, INDC, SDG-11

137. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	28. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient urban infrastructure, environment sensitive urban transport, protection of wetlands, etc.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Short Term (by 2024)	Departmental Trainings related to urban planning (TP, GMDA)	Technical support from ASDMA, WR, Forest, Transport Depts., Railway, SEIAA, GSCL.	NAPCC, INDC, SDG-6, SDG-13 ¹³⁸ , PMTPA-8
	29. Develop IEC materials on mainstreaming DRR in urban infrastructure, urban transport, protection of wetlands, etc.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Short Term (by 2024)	Existing human resource at the state, GMC, GMDA.	<ul style="list-style-type: none"> • Technical support from ASDMA, Info & PR Dept. • Creation of awareness videos, flex banners, booklets, etc. bearing all the information on priority basis. 	
	30. Print and distribute IEC materials on mainstreaming DRR in urban infrastructure, environment sensitive urban transport, protection of wetlands, etc. to all Organisations under GDD & share it through media for public awareness.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	PMTA-7
	31. Organize awareness programmes on mainstreaming DRR in urban infrastructure, environment sensitive urban transport, protection of wetlands, etc. also disseminate through radio, print, TV, and social media.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Short Term (by 2024)	GMDA in collaboration with GMC and other allied Departments can create awareness.	Collaboration with ASDMA, Info & PR Dept., and NGOs working on urban issues.	NAPCC, INDC, SDG-13, PMTPA-7

138. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	32. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, public buildings, water treatment plants, piped water supply schemes, schools, hospitals, etc.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Medium Term (by 2026)	<ul style="list-style-type: none"> Fire Extinguishers and water hydrant pump at each floor of the GMDA Building. Dept. Annual Plan. 	Technical support from ASDMA, Fire Services.	
	33. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / GMDA/ GMC/ GM-DWSB/ GJB/ Guwahati Smart City Ltd.	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept., Fire Services.	

3.3.3 Department of Urban Development (To be implemented by Department of Housing and Urban Affairs)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, public buildings, sewerage, piped water supply schemes, schools, Markets, etc. by Urban Development Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.), security threats, and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State	Short Term (by 2024)	Dept. Annual Plan.	Funds required. Budget head	NAPCC ¹³⁹ , INDC ¹⁴⁰ , SDG-11 ¹⁴¹
	2. Conduct safety audit of all offices, public buildings, sewerage, piped water supply schemes, schools, markets, etc. by Urban Development Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.), security threats, and recommend possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	District / ULB	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMT-PA-4

139. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

140. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

141. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	3. Identification of available wetlands, flood/ landslide zones, land use pattern and listing of encroachment by commercial/ personal establishment within the District/ULBs.	District / ULB	Short Term (by 2024)	National Green Tribunal directions, Master Plan, Polluted rivers are identified, Existing Human Resource.	Support from District Administration, ULBs, Rev. & DM Dept., Env. & Forest Dept.	SDG-6 ¹⁴² , PMT-PA-4
	4. Identification and listing of clogged drains resulting to urban floods.	District / ULB	Short Term (by 2024)	Drainage scheme	Support from District Administration & PWD (R&B) Dept.	SDG-11, PMT-PA-4
	5. Investigate potential flashpoints where sewage, flood water and treated water get mixed.	District / ULB	Short Term (by 2024)	Drainage scheme, National Green Tribunal directions		SDG-11, PMT-PA-4
	6. Study and remodeling of existing water supply and sewerage system to reduce vulnerability.	State / District / ULB	Medium Term (by 2026)	Dept. Annual Plan.	<ul style="list-style-type: none"> • Technical support from knowledge institutes. • Financial inclusion. 	SDG-11, PMT-PA-4
	7. Integrate risk analysis in the Master Plan, AMRUT and other schemes/projects.	State / Municipality	Medium Term (by 2026)	Dept. Annual Plan.	<ul style="list-style-type: none"> • Technical support from ASDMA, PWD (B&NH) Dept. & Fire Services. • Collaboration with UN Agencies, Universities, Technical Institutes. 	SDG-11, PMT-PA-4
	8. GIS/GPS Mapping of all Departmental infrastructure (offices, public buildings, sewerage, piped water supply schemes, schools, markets, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / ULB	Medium Term (by 2026)	GIS based Master Plan. Available human resource at ULB level	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMT-PA-5
	9. GIS/GPS Mapping of open spaces/ safe locations and evacuation routes to setup temporary shelter, water, and sanitation facilities in case of any disaster.	State / District / ULB	Short Term (by 2024)	GIS based Master Plan. Available human resource at ULB level	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMT-PA-5
	10. Share the GIS/GPS Database to be integrated with other departments.	State	Medium Term (by 2026)		Technical support from ASDMA.	PMT-PA-5

142. Reference: UN (<https://sdgs.un.org/goals/goal6>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	11. Develop Department Disaster Management Plan & SOP on emergency response for officials of Urban Development Department at all levels (State, District, ULB), covering fire, floods, earthquake, storm, etc.	State / ULB	Short Term (by 2024)	State Dept. DM Plan	Technical support from ASDMA.	SDG-11
	12. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMT-PA-1
	13. Develop/update ULB-level Departmental Disaster Management Plans and conduct mock-drills.	Municipality / Ward	Short Term (by 2024)	ULB Level plan under process.	Technical support from ASDMA, NDRF, SDRF Fire Services.	
	14. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient urban development & integrate that in the training curriculum for the Department officials.	State / ULB	Short Term (by 2024)	Regular trainings conducted by AASC.	Technical support from ASDMA, AASC, Fire Services, PWD (B&NH), PWD (Roads), Transport Dept.	
	15. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / ULB	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMT-PA-1
	16. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / ULB	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMT-PA-1
	17. Formulate policy to reduce pollution (air, water, land), increase urban green space and ensure restoration of water bodies in and around towns/cities.	State / ULB	Short Term (by 2024)	Master Plan, Assam Municipal Development Project (AMDP), Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Proposed legacy waste dumpsite remediation.	<ul style="list-style-type: none"> • Technical support from ASDMA, Forest Dept. • Collaboration with UN Agencies, Universities, Technical Institutes. • Exposure visits to Bombay Municipal Corporation. 	NAPCC, INDC, SDG-11, PMT-PA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	18. Coordinate with Env. & Forest Dept. & GDD in developing a policy on safe waste recycling & disposal, including e-waste.	State / ULB	Short Term (by 2024)	Dept. Annual Plan.	Cooperation of the concerned Depts.	NAPCC, INDC, SDG-11, PMT-PA-1
	19. Formulate policy to develop environment sensitive urban transport system to reduce accidents and air pollution.	State / ULB	Short Term (by 2024)	Master Plan, AMDP, AM-RUT	<ul style="list-style-type: none"> Technical support from ASDMA, Transport, Forest Dept., PWD (Roads). Collaboration with UN Agencies, Universities, Technical Institutes. 	NAPCC, INDC, SDG-11, PMT-PA-1
	20. Form state-municipality level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / ULB	Short Term (by 2024)	Existing human resource at the state & district level.		PMT-PA-8
	21. Systematic eviction of encroachers.	State / ULB	Long Term (by 2030)	Identification of encroachment base on govt. land records	Support from District Administration, ULBs, Rev. & DM Dept., Env. & Forest Dept.	
	22. Flood risk areas and flood protections to be integrated into the Building Byelaws.	State / ULB	Medium Term (by 2026)	Assam notified Urban Areas other than Guwahati Building Rules, 2014/ Building Byelaw	Support from District Administration, ULBs, Rev. & DM Dept., PWD (B&NH).	NAPCC, INDC, SDG-11, PMT-PA-1
	23. Create mechanisms and procedures for strict monitoring of adherence to the building codes and safety norms during construction and take punitive actions for violations.	State / ULB	Short Term (by 2024)	Assam notified Urban Areas other than Guwahati Building Rules, 2014/ Provisions under Municipal Act, 1956.	Support from District Administration. Improve monitoring and reporting mechanism required.	
Priority 3: Investing in DRR for Resilience	24. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and security threats, based on the findings from the safety audit of all offices, public buildings, sewerage, piped water supply schemes, schools, hospitals, etc. in phased manner.	State / ULB	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept. & Fire Services.	NAPCC, INDC, SDG-11, PMT-PA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	25. Develop Disaster Mitigation Project Proposals for public buildings, sewerage, piped water supply schemes, schools, hospitals, etc. in line with Disaster Risk Mitigation Fund guidelines.	State / ULB	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-11, PMT-PA-1
	26. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets/infrastructure (office, equipment, schemes, etc.) due to any disaster, staff/workers injury/death on duty, etc., in line with Digital India programme.	State / ULB	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMT-PA-5
	27. Setup sewage treatment plants and ensure restoration of water bodies in and around towns/cities.	State / ULB	Medium Term (by 2026)	Master Plan, AMDP	National Green Tribunal orders.	SDG-11, PMT-PA-1
	28. Setup waste recycling plants and stringent implementation of the ban on single-use plastic products.	State / ULB	Medium Term (by 2026)	Master Plan, AMDP		NAPCC, INDC, SDG-11, PMT-PA-1
	29. Develop green space/corridor/urban forests in the towns/cities.	State / ULB	Medium Term (by 2026)	AMRUT		
	30. Develop and implement projects to develop environment sensitive urban transport system (increasing electric bus fleet, odd-even scheme for private vehicles, etc.) to reduce accidents and air pollution.	State / ULB	Medium Term (by 2026)	Master Plan, AMDP	Technical support from Transport Dept., PWD (Roads).	SDG-11, PMT-PA-1
	31. Develop and implement projects to improve footpaths and dedicated bicycle lanes.	State / ULB	Medium Term (by 2026)	Master Plan, AMDP	Technical support from Transport Dept., PWD (Roads).	SDG-11, PMT-PA-1
	32. Procurement and installation of solar based electrification of offices, public buildings, piped water supply schemes, schools, hospitals, etc.	State / ULB	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from APDCL, Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹⁴³
	33. Information on basic service delivery to citizens (water supply/Sewerage/road length/waste generation/streetlight, etc.) to be shared through various forms of media.	ULB	Short Term (by 2024)	Schemes on Pavers Block/Project Jyoti/LED High Mast Light/Solar Street Light.		SDG-11, PMT-PA-7

143. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	34. Assessing, rationalizing, and modifying all road levels to allow water to flow down. Road levels need to be matched to other road/drain levels & also to the levels of the houses in the areas where road levels are higher than the house level.	ULB	Long Term (by 2030)	Drainage Master Plan	Support from PWD (Roads).	SDG-11, PMT-PA-1
	35. Identify and remove culverts and blockages on drains and streams.	ULB	Short Term (by 2024)	Drainage scheme	Support from PWD (Roads).	SDG-11, PMT-PA-1
	36. Build neighborhood solid waste collection areas on higher ground and garbage dumping ground outside city on higher ground with impervious bed to prevent contamination of ground water.	ULB	Long Term (by 2030)	Solid Waste Management	Support from District Administration	SDG-11, PMT-PA-1
	37. Protection and restoration of existing water bodies and creation of new water bodies.	State / ULB	Long Term (by 2030)	National Green Tribunal directions	Support from District Administration	SDG-6, PMT-PA-1
	38. Promote non-motorized transport like walking and cycling through development of necessary infrastructure.	ULB	Medium Term (by 2026)	AMRUT	Support from District Administration	SDG-11
	39. Promote solar-based electrification & rainwater harvesting in the offices, public buildings, piped water supply schemes, schools, hospitals, etc.	State / ULB	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept., Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹⁴⁴
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	40. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient urban development.	State / ULB	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC.	PMT-PA-8
	41. Develop IEC materials on mainstreaming DRR in urban infrastructure, environment sensitive urban transport, protection of wetlands, etc.	State / ULB	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	42. Print and distribute IEC materials on mainstreaming DRR in urban infrastructure, environment sensitive urban transport, protection of wetlands, etc. to all Organisations under UDD & also share it through media for public awareness.	State / ULB	Short Term (by 2024)	Dept. Annual Plan.		PMT-PA-7

144. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	43. Organize awareness programmes on mainstreaming DRR in urban infrastructure, environment sensitive urban transport, protection of wetlands, etc. also disseminate through radio, print, TV, and social media.	State / ULB	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with ASDMA, Info & PR Dept., and NGOs working on urban issues.	SDG-11, PMTPA-7
	44. Installation of fire extinguishers in all offices, public buildings, water treatment plants, piped water supply schemes, schools, hospitals, etc.	ULB	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11
	45. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / ULB	Medium Term (by 2026)	Dept. Annual Plan.		
	46. Setting up of Emergency Control Room at ULB level.	State / ULB	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from DDMA.	
	47. Cleaning, de-silting, installing silt traps and providing drain covers to be completed every year by 30th April.	ULB	Short Term (by 2024)	Drainage scheme, National Green Tribunal directions		SDG-11
	48. Setup systems to access early warning messages for lightening, storm, flood, etc. by Departmental officials.	State / ULB	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA & IMD.	PMT-PA-5
	49. Mason training at local level on earthquake resilient technologies.	State / ULB	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Universities, Technical Institutes.	SDG-11, PMTPA-8

3.4 Resilient Livelihoods

In this theme, the stakeholders will focus on livelihoods that can quickly recover from disasters, absorb the impact of economic and environmental hazards, and promote people's well-being and prosperity.

3.4.1 Department of Agriculture & Horticulture

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of the Agriculture & Horticulture Department infrastructure to identify the structural vulnerabilities (buildings, irrigation canals, water harvesting structures, etc.), hazard risks (fire, flood, erosion, etc.), & possible remedial measures (retrofitting, repair, reconstruction, etc.) to be taken.	State	Short Term (by 2024)	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ¹⁴⁵ , INDC ¹⁴⁶ , SDG-11 ¹⁴⁷
	2. Conduct safety audit of the Departmental infrastructure to identify the structural vulnerabilities (buildings, irrigation canals, water harvesting structures, etc.), hazard risks (fire, flood, erosion, etc.), & recommend possible remedial measures (retrofitting, repair, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (by 2024)	<ul style="list-style-type: none"> Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) Existing human resource at the state & district level. 	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Support Soil Conservation Dept. to conduct scientific research related to soil testing, erosion, reclamation of barren land for agriculture & afforestation, etc.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> National Mission for Sustainable Agriculture (NMSA) Existing human resource at the state & district level. 	<ul style="list-style-type: none"> Cooperation of Soil Conservation Dept. Collaboration with ASDMA, Universities, NGOs. 	NAPCC, INDC, SDG-13 ¹⁴⁸ , SDG-15 ¹⁴⁹ , PMTPA-4
	4. Develop block-wise agricultural map showing vulnerable crop area, high land for community nursery, seeds bank/storage, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IIT-G, CSIR-NEIST, ASTEC, NESAC.	PMPA-4
	5. Develop Farmer's Database Land Records with Crop Area (High/ Medium/ Low).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from Rev. & DM Dept.	PMPA-5

145. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

146. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

147. Reference: UN (<https://sdgs.un.org/goals/goal11>)

148. Reference: UN (<https://sdgs.un.org/goals/goal13>)

149. Reference: UN (<https://sdgs.un.org/goals/goal15>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	6. GIS/GPS Mapping (including photos) of the Department infrastructure/resources & develop a database categorising them as per disaster & structural vulnerability (safe and unsafe).	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	7. Share the GIS/GPS Database to be integrated with other Departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	8. Develop Departmental Disaster Management Plan, SOPs & Contingency Plans on emergency response (floods, pest attacks, drought, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13
	9. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	10. Develop/adapt Early Warning System (EWS) for pest attacks, crop diseases and weather forecasting, & dissemination of information up to village level using electronic & social media.	State / District	Medium Term (by 2026)	Information Cell at Directorate of Agriculture.	Technical support from ASDMA, KVKs, AAU.	NAPCC, INDC, SDG-13, PMPA-5
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMPA-1
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMPA-1
	13. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	14. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient agriculture & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Forest Dept., Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-13

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	15. Develop an Action Plan to assist the farmers affected by the COVID-19 pandemic to improve their production & distribution for sustainable livelihood.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
Priority 3: Investing in DRR for Resilience	16. Construction of seed bank/storage godowns to maintain stocks of foundation & certified seeds of different crops/ varieties in areas safe from flood in the district or in the neighbouring district.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Support from Assam Seed Corporation Ltd., National Seed Corporation Ltd., FCI godowns, Assam State Agricultural Marketing Board godowns	SDG-2 ¹⁵⁰ , PMTPA-1
	17. Production and processing of flood tolerant varieties of paddy seed.	State / District	Medium Term (by 2026)	Assam Agribusiness and Rural Transformation Project (APART)/ National Food Security Mission (NFSM)/ Flood Damage Restoration under Disaster Management (SOPD) scheme/ Rashtriya Krishi Vikash Yojana (RKVY)/ Farmer Producer Organisations	Technical support from Assam Seed Corporation Ltd, National Seed Corporation Ltd., Cooperation of Farmers' Organisations.	NAPCC, SDG-2, PMTPA-1
	18. Minimize the use of chemicals thereby to control the environmental pollution with the adoption of Integrated Pest Management practices and adoption of organic farming.	State / District	Short Term (by 2024)	Mission Organic Value Chain Development in Assam (MOVCD)/ NFSM/ RKVY		NAPCC, INDC, SDG-2, PMTPA-1
	19. Create awareness to increase insurance coverage and financial support to the farmers in the event of failure of any of the notified crop because of natural calamities, pest attacks and diseases.	State / District	Medium Term (by 2026)	Pradhan Mantri Fasal Bima Yojana (PMFBY)	Technical support from ASDMA, Info & PR Dept., NABARD, Banks, Insurance Companies.	NAPCC, PMTPA-2
	20. Construction of water harvesting structures, secondary/ micro storage, groundwater development, enhancing potentials of traditional water bodies across the entire state prioritizing areas facing drought like situation.	State / District	Medium Term (by 2026)	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)	Technical support from Soil Conservation Dept.	SDG-15, PMTPA-1

150. Reference: UN (<https://sdgs.un.org/goals/goal2>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	21. Modernization & service orientation of irrigation system management to allow for changing cropping systems & the adaptation of farmers' practices.	State / District	Medium Term (by 2026)	NFSM/ RKVY/ PMKSY/ Mission for Integrated Development of Horticulture (MIDH)	Technical support from Irrigation Dept.	SDG-2
	22. Implement remedial measures (retrofitting, repair, reconstruction, etc.) against the identified structural vulnerabilities (buildings, irrigation canals, water harvesting structures, etc.) and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of the Department infrastructure in phased manner.	District / Sub-District	Long Term (by 2030)	Pradhan Mantri Kri-shi Sinchayee Yojana (PMKSY)		NAPCC, INDC, SDG-11, PMTPA-1
	23. Explore the possibility of funding for disaster resilient infrastructure through PPP mode, CSR, and crowd funding.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Collaboration with FICCI, CII, etc.	SDG-17 ¹⁵¹
	24. Develop Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-2, PMTPA-1
	25. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, irrigation canals, water harvesting structures, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	
	26. Identify and include disaster risk financing and risk insurance options for the infrastructure.	State / District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from NABARD, Banks, Insurance Companies.	SDG-17
	27. Promote solar-based electrification of all offices, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁵²
	28. Promote rainwater-harvesting structures across Assam for improving agriculture.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		

151. Reference: UN (<https://sdgs.un.org/goals/goal17>)152. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	29. Distribution of High Yielding Variety/ local variety of paddy seeds/ seedlings among the poor small and marginal farmers to compensate for the loss after flood.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with NGOs, Farmers' Organisations, etc. for developing Community Nursery and distribution of seedlings.	NAPCC, SDG-2
	30. Undertake intensive Rabi Crop Programme (for black-gram, green gram, pea, lentil, mustard, maize, paddy, potato, onion, garlic, vegetables, etc.) from September to February.	State / District	Short Term (by 2024)	Dept. Annual Plan.		NAPCC, SDG-2
	31. Provide free tractorization and timely supply of good quality seeds may to the poor small and marginal farmers.	State / District	Short Term (by 2024)	Dept. Annual Plan.		
	32. Training of the Department officials & farmers on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient agriculture.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, AASC.	NAPCC, INDC, SDG-13, PMTPA-8
	33. Conduct Tabletop Exercise & Mock Drills on Early Warning Dissemination and emergency response.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-8
	34. Based on the learnings after a disaster, take measures such as land-use planning, structural standards improvement, etc. in the post-disaster recovery/reconstruction planning and implementation.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		NAPCC, INDC, PMTPA-9
	35. Support Soil Conservation Dept. in awareness programmes for discouraging jhum cultivation, promotion of afforestation, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-15
	36. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11
	37. Develop IEC materials on integrating DRR and Climate Change Adaptation in agriculture for Department officials, farmers, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	38. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation in agriculture & share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Info & PR Dept.	

3.4.2 Department of Animal Husbandry & Veterinary

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, hospitals, dispensaries, colleges, etc. by Animal Husbandry & Veterinary Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ¹⁵³ , INDC ¹⁵⁴ , SDG-11 ¹⁵⁵
	2. Conduct safety audit of all offices, hospitals, dispensaries, colleges, etc. by the Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.), & recommend possible remedial measures (retrofitting, demolition, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Rashtriya Krishi Vigyan Yojana (RKVY), Establishment of Veterinary Dispensary & Hospital (EVHD), Rural Infrastructure Development Fund (RIDF)	Technical support from ASDMA, Fire Services, PWD (B&NH) Dept.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct study to identify risks faced by livestock, and recommended actions for all districts of Assam.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with Universities and Technical Institutes.	SDG-15 ¹⁵⁶ , PMTPA-4
	4. Involve local communities while conducting study to identify risks faced by livestock.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with ASDMA, P&RD Dept., and NGOs working on livestock issues.	PMTPA-8

153. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

154. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

155. Reference: UN (<https://sdgs.un.org/goals/goal11>)

156. Reference: UN (<https://sdgs.un.org/goals/goal15>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	5. GIS/GPS Mapping of all Departmental infrastructure (offices, hospitals, colleges, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT, Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	6. GIS/GPS Mapping of raised platforms, highlands, etc. in districts for livestock to take refuge during floods.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT, Dept., CSIR-NEIST, ASTEC, NESAC.	SDG-15, PMPA-5
	7. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	8. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response (floods, epidemic, storm, chemical hazards, etc.) for Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	9. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	10. Develop/adapt Early Warning System (EWS) for animal diseases.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, PMPA-1
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, PMPA1
	13. Expansion and strengthening of extension services such as Gopal Mitras and farmers for improved livestock management.	District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.		PMPA-8

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	14. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	15. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient livestock management, disease surveillance, etc. & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC
Priority 3: Investing in DRR for Resilience	16. Take remedial measures (retrofitting, demolition, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, etc.) based on the findings from the safety audit of all offices, hospitals, dispensaries, colleges, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Rashtriya Krishi Vigyan Yojana (RKVY), Establishment of Veterinary Dispensary & Hospital (EVHD), Rural Infrastructure Development Fund (RIDF)	Technical support from ASDMA, Fire Services, PWD (B&NH) Dept.	NAPCC, INDC, SDG-11, PMPA-1
	17. Develop Disaster Mitigation Project Proposals for Animal Husbandry & Veterinary in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	18. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, hospitals, dispensaries, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	19. Improve vaccine production and cold storage in the veterinary hospitals & clinics.	State / District	Medium Term (by 2026)	Institute of Veterinary Biologicals, Assam		
	20. Extension and promotion of livestock insurance.	District / Sub-District	Medium Term (by 2026)	National Livestock Mission	Technical support from NABARD, Banks, Insurance Companies.	
	21. Creating of raised fodder cultivation plots.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.		

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	22. Upgradation of Clinical Investigation Unit.	State / District	Medium Term (by 2026)	EVHD		
	23. Promote solar-based electrification & rainwater harvesting all offices, hospitals, dispensaries, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept., Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹⁵⁷
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	24. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient livestock management, disease surveillance, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, AASC.	PMPA-8
	25. Orientation of Gopal Mitras, farmers, and other stakeholders as per the Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response.	District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.		PMPA-8
	26. Develop IEC materials on integrating DRR and Climate Change Adaptation in Animal Husbandry, benefits of livestock insurance, disease surveillance, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	27. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation in Animal Husbandry, benefits of livestock insurance, disease surveillance, etc. for all offices, Gopal Mitras, farmers, etc. & also share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.		NAPCC, INDC, SDG-13, PMPA-7
	28. Organize awareness programmes DRR, Animal Husbandry, benefits of livestock insurance, disease surveillance, etc. for Gopal Mitras, farmers, etc. & also share information through radio, print, TV, and social media.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with ASDMA, Info & PR, P&RD Depts., and NGOs working on livestock issues.	NAPCC, INDC, SDG-13, PMPA-7
	29. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, hospitals, dispensaries, colleges, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11

157. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	30. Procure Veterinary Ambulance, engine boats, life-vests, PPE Kits, rescue equipment, etc. for emergency response in case of any disaster.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, NDRF, SDRF & Fire Services.	

3.4.3 Department of Fishery

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of the Department infrastructure to identify the structural vulnerabilities (office buildings, pond structures, embankment, etc.), hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, repair, reconstruction, etc.) to be taken.	State	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), WR Dept., Fire Services.	NAPCC ¹⁵⁸ , INDC ¹⁵⁹ , SDG-11 ¹⁶⁰
	2. Conduct safety audit of the Department infrastructure to identify the structural vulnerabilities (office buildings, pond structures, embankment, etc.), hazard risks (fire, flood, erosion, etc.) and possible remedial measures (retrofitting, repair, reconstruction, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	<ul style="list-style-type: none"> Technical support from ASDMA, PWD (B&NH), WR Dept., Fire Services. Local Communities, Groups, NGOs can support the Department in identifying the vulnerable fishery areas. 	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct scientific research related to fishes, fish production, impact of climate change on fishery, etc. in collaboration with College of Fisheries (Raha) & Central Inland Fisheries Research Institute.	State	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from Agri. Dept., Indian Council of Agricultural Research (ICAR).	SDG-14 ¹⁶¹ , PMTPA-4

158. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

159. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

160. Reference: UN (<https://sdgs.un.org/goals/goal11>)

161. Reference: UN (<https://sdgs.un.org/goals/goal14>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	4. GIS/GPS Mapping (including photos) of the Department infrastructure/resources and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	5. Share the GIS/GPS Database to be integrated with other Departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response (floods, erosion, drought, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-14
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	8. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMPA-1
	9. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMPA-1
	10. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
11. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient fishery management & integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-13	

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	12. Establish a DRR and CCA cell within the Department.	State	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Forest Dept.	
Priority 3: Investing in DRR for Resilience	13. Encourage the farmers to adopt progressive farming practices, high value inputs and modern technology in aquaculture practices.	State / District	Short Term (by 2024)	Dept. Annual Plan.	<ul style="list-style-type: none"> • Technical support from Agri. Dept., ICAR • Local Communities, Groups, NGOs can support 	SDG-14
	14. Establishment of Fish Seed Bank for supply of fish seed after flood as a contingency measures. Both Government & some selected fish seed farms may be upgraded for the specific purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.		
	15. Increase insurance coverage and financial support to the fish farmers in the event of failure of any of the notified crop because of natural calamities, pest attacks & epidemic/pandemic.	State / District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from Finance Dept., NABARD, Banks, Insurance Companies.	PMTPA-2
	16. Implement remedial measures (retrofitting, repair, reconstruction, etc.) against the identified structural vulnerabilities (office buildings, pond structures, embankment, etc.) and hazard risks (fire, flood, erosion, etc.) based on the findings from the safety audit of the Department infrastructure in phased manner.	District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	SDG-14, PMTPA-1
	17. Develop Disaster Mitigation Project Proposals in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	18. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, pond structures, embankment, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	19. Identify and include disaster risk financing and risk insurance options for the infrastructure.	State / District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from NABARD, Banks, Insurance Companies.	PMPA-2
	20. Promote solar-based electrification & rainwater harvesting in all offices, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁶²
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	21. Training of the Department officials on integrating DRR and Climate Change Adaptation for sustainable & disaster resilient fishery management.	State / District	Short Term (by 2024)		Technical support from ASDMA.	PMPA-8
	22. Based on the learnings after a disaster, take measures such as structural standards improvement, etc. in the post-disaster recovery/reconstruction planning and implementation.	State / District	Medium Term (by 2026)		Technical support from ASDMA.	PMPA-9
	23. Provision for financial support to the disaster affected fisher folks.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		
	24. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-11

3.4.4 Department of Handloom, Textiles & Sericulture

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, manufacturing centres/units, etc. by Handloom, Textiles & Sericulture Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC ¹⁶³ , INDC ¹⁶⁴ , SDG-9 ¹⁶⁵

162. Reference: UN (<https://sdgs.un.org/goals/goal7>)

163. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

164. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

165. Reference: UN (<https://sdgs.un.org/goals/goal9>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	2. Conduct safety audit of all offices, manufacturing centres/units, etc. to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-9, PMTPA-4
	3. Conduct study to identify socio-economic vulnerabilities, and risks faced by artisans, weavers, and entrepreneurs due to disasters and climate change, etc., and recommend actions to mitigate those risks.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Skill, Employment & Entrepreneurship Dept., Universities & NGOs.	SDG-8 ¹⁶⁶ , PMTPA-4
	4. Research & development for introduction of water-resistant varieties of Eri Silkworm food plants (Kesseru & Castor).	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from Universities.	PMTPA-4
	5. GIS/GPS Mapping of all offices, manufacturing centres/units, etc. and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	6. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (fire, floods, earthquake, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	9. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-8, SDG-9, PMTPA-1

166. Reference: UN (<https://sdgs.un.org/goals/goal8>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	10. Support artisans, weavers, and entrepreneurs in developing their Business Continuity Plans to build their disaster resilience.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	11. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	12. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-8, SDG-9, PMTPA-1
	13. Develop/update content on integration of DRR & Climate Change Adaptation in Handloom, Textiles & Sericulture projects, and integrate that in the training curriculum for the Department officials & the artisans, weavers, and entrepreneurs.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	14. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, lightning etc.) based on the findings from the safety audit of all offices, manufacturing centres/units, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	PMTPA-1
	15. Increase insurance coverage and financial support to the Weavers, Artisans, & Producers in the event of losses due to natural calamities, pest attacks & epidemic/pandemic.	State / District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from Finance Dept., Banks, Insurance Companies.	PMTPA-2
	16. Ensure construction of community spinning/reeling shed on high ground in flood prone silk producing Panchayats/Blocks.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from P&RD Dept.	
	17. Ensure construction of community rearing house on raised platform in flood prone Panchayats/Blocks for rearers to shift polytube nursery seedling & continue rearing during floods.	State / District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from P&RD Dept.	

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	18. Develop Disaster Mitigation Project Proposals, to ensure resilient Handloom, Textiles & Sericulture, in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	19. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of artisans, weavers, and entrepreneurs on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	20. Promote solar-based electrification & rainwater harvesting in all offices, manufacturing centres/units, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁶⁷
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	21. Training of the Department officials, artisans, weavers, and entrepreneurs on integrating DRR and Climate Change Adaptation for the disaster resilience of Handloom, Textiles & Sericulture.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-9, PMTPA-8
	22. Develop IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilience of Handloom, Textiles & Sericulture.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	23. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilience of Handloom, Textiles & Sericulture for all offices, manufacturing centres/units, etc. & also share it through media for public awareness.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-9, PMTPA-7
	24. Setup systems to access & dissemination of early warning messages for rainfall, storm, flood, etc. for rearers to schedule silkworm rearing successfully.	State / District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA & IMD.	SDG-13 ¹⁶⁸ , PMTPA-5

167. Reference: UN (<https://sdgs.un.org/goals/goal7>)168. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	25. Promote adoption of using disinfectants as preventive measure for different diseases for silkworm rearing by the rearers during flood.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		
	26. Conduct awareness programmes among artisans, weavers, and entrepreneurs on the importance of integrating DRR and Climate Change Adaptation for the disaster resilience of Handloom, Textiles & Sericulture.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Skill, Employment & Entrepreneurship Dept., Universities & NGOs.	NAPCC, INDC, SDG-9, PMT-PA-7
	27. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, manufacturing centres/units, etc.	District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA & Fire Services.	

3.4.5 Department of Irrigation

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, barrage, canals, Mini Hydel Projects, etc. by Irrigation Department to identify the structural vulnerabilities, hazard risks (flood, erosion, earthquake, etc.) and possible remedial measures (retrofitting, demolition, reconstruction, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Water Res. Dept., Fire Services.	NAPCC ¹⁶⁹ , INDC ¹⁷⁰ , SDG-11 ¹⁷¹
	2. Conduct safety audit of all offices, barrage, canals, Mini Hydel Projects, etc. by the Department to identify the structural vulnerabilities, hazard risks (flood, erosion, earthquake, etc.) and recommend possible remedial measures (retrofitting, demolition, reconstructions, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)	Technical support from ASDMA, PWD (B&NH), Water Res. Dept., Fire Services.	NAPCC, INDC, SDG-11, PMT-PA-4

169. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

170. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

171. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	3. Involve Water Users' Associations while conducting safety audit to identify risks faced by barrage, canals, Mini Hydel Projects, etc.	State / District / Sub-District	Short Term (by 2024)	Existing human resource the state & district level.	Collaboration with ASDMA, NGOs.	PMPA-8
	4. Identification of arsenic prone areas & level in respect of Ground Water Irrigation Schemes to take necessary steps towards protection against arsenic effect on agriculture production.	State / District / Sub-District	Medium Term (by 2026)	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)	Technical support from PHED.	PMPA-4
	5. GIS/GPS Mapping of all Departmental infrastructure (offices, barrage, canals, Mini Hydel Projects, etc.) and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	6. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Department Disaster Management Plan, SOP & Contingency Plan for emergency response (floods, erosion, earthquake, etc.) for Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource the state & district level.	Technical support from ASDMA.	
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	9. Form state-district level joint monitoring teams to assess and monitor disaster preparedness, response, recovery, and mitigation in the irrigation projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Support from Dist. Admin.	PMPA-8
	10. Setup of a State Level Drought Management Centre (SLDMC) to coordinate on dry land agriculture, supporting research & projects to provide solution to drought affected areas.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Agri. Dept.	PMPA-8
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the irrigation projects.	State / District	Short Term (by 2024)	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)	Technical support from ASDMA, Env. & Forest Dept.	NAPCC, INDC, SDG-13 ¹⁷² , PMPA-1

172. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	13. Setup systems to access & dissemination of early warning messages for flood, storm, drought, etc. by the Department officials.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA & IMD.	NAPCC, INDC, SDG-13, PMTPA-5
	14. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient irrigation & integrate that in the training curriculum for the Department officials.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Env. & Forest Dept., Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	15. Take remedial measures (retrofitting, demolition, reconstruction, etc.) against the identified structural vulnerabilities and hazard risks (flood, erosion, earthquake, etc.) based on the findings from the safety audit of all offices, barrage, canals, Mini Hydel Projects, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Water Res. Dept., Fire Services.	NAPCC, INDC, SDG-11, PMTPA-1
	16. Allocation of funds for integration of DRR and Climate Change Adaptation components in all irrigation projects.	State / District	Medium Term (by 2026)	Dept. Annual Plan.		NAPCC, INDC, SDG-13, PMTPA-1
	17. Develop Disaster Mitigation Project Proposals for irrigation in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	18. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	19. Create and rejuvenate traditional water storage systems like Dongs in Assam at feasible locations.	State / District	Medium Term (by 2026)	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)		NAPCC, INDC, SDG-11, PMTPA-8
	20. Ensure afforestation/plantation on both side of canal/embankment along with Head Work.	District / Sub-District	Medium Term (by 2026)	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)	Technical support from Env. & Forest Dept. Soil Conservation Dept.	

SFDRR Priority	DRR Action	Level of Action	Time-line	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	21. Promote solar-based electrification & rainwater harvesting in the offices and irrigation projects, in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power Dept., Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ¹⁷³
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	22. Training of the Department officials on DRR and Climate Change Adaptation in irrigation projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMT-PA-8
	23. Develop IEC materials on DRR and Climate Change Adaptation in irrigation projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	24. Print and distribute IEC materials on DRR and Climate Change Adaptation in irrigation for all offices & share through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	NAPCC, INDC, SDG-13, PMT-PA-7
	25. Ensure High Flood Level (HFL) marking in all the important irrigation structures.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from DDMA's.	
	26. Installation of fire extinguishers in all offices.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Fire Services.	
	27. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in case of any disaster.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, Health Dept. Fire Services.	

173. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.4.6 Department of Labour & Welfare

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of the Head office, Zonal and District offices by Labour Welfare Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, lightning, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA & PWD (B&NH) Dept.	NAPCC ¹⁷⁴ , INDC ¹⁷⁵ , SDG-11 ¹⁷⁶
	2. Conduct safety audit of the Head office, Zonal and District offices to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, lightning, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & PWD (B&NH) Dept.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct study to identify risks faced by labourers and children due to disasters, climate change, forced migration, crime (trafficking, kidnapping, physical violence, sexual abuse, etc.), and recommended actions in all districts of Assam.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Collaboration with Social Welfare Dept., UNICEF, NGOs working on women & child rights.	SDG-8 ¹⁷⁷ , PMTPA-4
	4. GIS/GPS Mapping of the Head office, Zonal and District offices and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTA-5
	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans on emergency response (flood, earthquake, pandemic, fire, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	NAPCC, INDC, SDG-11

174. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

175. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

176. Reference: UN (<https://sdgs.un.org/goals/goal11>)

177. Reference: UN (<https://sdgs.un.org/goals/goal8>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	8. Conduct disaster mock-drills in the Head office, Zonal and District offices based on the Departmental Disaster Management Plan, SOP & Contingency Plans.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, NDRF, SDRF, Fire Services.	NAPCC, INDC, SDG-13 ¹⁷⁸
	9. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the irrigation projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Env. & Forest Dept.	NAPCC, INDC, SDG-13, PMTPA-1
	10. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-13, PMTPA-1
	11. Develop content on labour and child rights, social security, workers safety, First-Aid, DRR, Climate Change, etc. and integrate that in training curriculum for Labour Welfare Department officials.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, Social Welfare Dept., Fire Services, PWD (B&NH), UNICEF.	
	12. Formation of state-district level joint monitoring teams to monitor activities related to labour and child rights, social security, workers safety, & DRR.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
Priority 3: Investing in DRR for Resilience	13. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, lightning etc.) based on the findings from the safety audit of the Head office, Zonal and District offices in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Power Dept., Fire Services.	NAPCC, INDC, SDG-11, PMTPA-1
	14. Allocation of funds for integration of DRR and Climate Change Adaptation components in all Departmental projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	PMPA-1

178. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	15. Develop Disaster Mitigation Project Proposals for Labour Welfare in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	16. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept.	PMTPA-5
	17. Promote solar-based electrification & rain-water harvesting in the Head office, Zonal and District offices, in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁷⁹
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	18. Training of officials from the Social Welfare Department on monitoring of labour and child rights, social security, workers safety, First-Aid, DRR, Climate Change, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-8
	19. Develop IEC materials on labour and child rights, social security, workers safety, First-Aid, DRR, Climate Change, etc.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Social Welfare Dept. & UNICEF.	
	20. Print and distribute IEC materials on labour and child rights, social security, workers safety, First-Aid, DRR, Climate Change, etc. for all offices, labour unions/ groups and children & also share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.		NAPCC, INDC, SDG-13, PMTPA-7
	21. Conduct awareness programmes among labours and children labour and child rights, social security, workers safety, First-Aid, DRR, Climate Change, etc.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Collaboration with Social Welfare Dept., UNICEF, NGOs working on women & child rights.	NAPCC, INDC, SDG-13, PMTPA-7
	22. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in the Head office, Zonal and District offices.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	NAPCC, INDC, SDG-11
	23. Install lightning arrester in the Head office, Zonal and District offices as per requirement.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Power Dept.	NAPCC, INDC, SDG-11

179. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.4.7 Department of Pension & Public Grievances

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, etc. under the Pension & Public Grievances Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ¹⁸⁰ , INDC ¹⁸¹ , SDG-9 ¹⁸² , SDG-11 ¹⁸³
	2. Conduct safety audit of all offices, etc. under the Department to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and recommend possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-9, SDG-11, PMTPA-4
	3. Conduct a study to identify the challenges faced by the Department in transferring/commutation of pension and recommend possible interventions.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Admin. Reforms & Training Dept.	SDG-9, SDG-11, PMTPA-4
	4. GIS/GPS Mapping of all Departmental infrastructure and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (cyber-attack, fire, floods, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-9, SDG-11
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1

180. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

181. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

182. Reference: UN (<https://sdgs.un.org/goals/goal9>)

183. Reference: UN (<https://sdgs.un.org/goals/goal11>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-9, SDG-11, PMTPA-1
	9. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTA-8
	10. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-9, SDG-11, PMTPA-1
	11. Develop/update content on integration of DRR & Climate Change Adaptation in the Departmental schemes and integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	12. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, etc.) based on the findings from the safety audit of all offices, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC, INDC, SDG-9, SDG-11, PMTPA-1
	13. Allocation of funds under various schemes for integration of DRR and Climate Change Adaptation components in all planned projects.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-9, SDG-11, PMTPA-1
	14. Develop Community Disaster Mitigation Project Proposals in line with State Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTA-1
	15. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTA-5

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	16. Develop and migrate to a secure online portal to maintain pensioners' database, application process for pension, provident fund, group insurance, etc. linked with Aadhaar.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, IT Dept.	PMTPA-5
	17. Promote solar-based electrification & rainwater harvesting in the offices in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁸⁴
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	18. Training of the Department officials on integrating DRR and Climate Change Adaptation in the Departmental schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-9, SDG-11, PMTPA-8
	19. Develop a campaign on generate greater awareness on schemes such as Pension, General Provident Fund, Group Insurance Scheme, Commutation of Pension, Special Family Pension, etc. among the public.	State / District	Short Term (by 2024)	Dept. Annual Plan.		PMTPA-7
	20. Develop IEC materials on integrating DRR and Climate Change Adaptation in the Departmental schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info. & PR Dept.	
	21. Print and distribute IEC materials, on integrating DRR and Climate Change Adaptation in the Departmental schemes, for all offices & also share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.		SDG-9, SDG-11, PMTPA-7
	22. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	SDG-9, SDG-11

184. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.4.8 Department of Skill, Employment & Entrepreneurship

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, ITIs, training centres, etc. by Skill, Employment & Entrepreneurship Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC ¹⁸⁵ , INDC ¹⁸⁶ , SDG-9 ¹⁸⁷
	2. Conduct safety audit of all offices, ITIs, training centres, etc. to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	NAPCC, INDC, SDG-9, PMTPA-4
	3. Conduct study to analyze the future industry forecasts and identify the employment risks in various sectors (such as Infrastructure, Construction, Healthcare, Power, Hospitality, Tourism, Aviation, etc.), and recommend actions to mitigate those risks. Publish the report in the public domain.	State / District / Sub-District	Short Term (by 2024)	<ul style="list-style-type: none"> Assam Skill Development Mission (ASDM). Annual Employment Review reports. 	Technical support from ASDMA, Universities & NGOs.	SDG-8 ¹⁸⁸ , PMTPA-4
	4. GIS/GPS Mapping of all offices, ITIs, training centres, etc. and develop a database categorizing them as per disaster and structural vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTA-5

185. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

186. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

187. Reference: UN (<https://sdgs.un.org/goals/goal9>)

188. Reference: UN (<https://sdgs.un.org/goals/goal8>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (fire, floods, economic crisis, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	SDG-8, SDG-9, PMTPA-1
	9. Integrate Business Continuity Planning component in the entrepreneurial courses to build their disaster resilience.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	PMTPA-1
	10. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects/schemes.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMTPA-8
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-8, SDG-9, PMTPA-1
	12. Develop/update content on integration of DRR & Climate Change Adaptation in Skill, Employment & Entrepreneurship, & integrate that in the training curriculum for the Department officials, trainees & employment seekers.	State / District / Sub-District	Short Term (by 2024)	<ul style="list-style-type: none"> Assam Skill Development Mission (ASDM). Existing training courses under ITIs, training centres, etc. 	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	13. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, lightning etc.) based on the findings from the safety audit of all offices, manufacturing centres/units, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) Dept., Fire Services.	PMTPA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	14. Develop Disaster Mitigation Project Proposals, to ensure disaster resilient Skill, Employment & Entrepreneurship development, in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-1
	15. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of staff on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	16. Develop and migrate to a secure online portal to maintain database of trainees & employment seekers to track their career/job placement, linked with Aadhaar.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept.	PMTPA-5
	17. Promote solar-based electrification & rainwater harvesting in all offices, ITIs, training centres, etc. in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁸⁹
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	18. Training of the Department officials, trainees & employment seekers on integrating DRR and Climate Change Adaptation for the disaster resilient Skill, Employment & Entrepreneurship development.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	NAPCC, INDC, SDG-9, PMTPA-8
	19. Develop IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilient Skill, Employment & Entrepreneurship development.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	20. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for the disaster resilient Skill, Employment & Entrepreneurship development for all offices, ITIs, training centres, etc.	State / District	Short Term (by 2024)	Dept. Annual Plan.		NAPCC, INDC, SDG-9, PMTPA-7
	21. Install fire extinguishers, fire alarm, fire escape, etc. in all offices, ITIs, training centres, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	

189. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.4.9 Department of Tea Tribes

SEDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, hostels, community centres, etc. under the Tea Tribes Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC ¹⁹⁰ , INDC ¹⁹¹ , SDG-11 ¹⁹²
	2. Conduct safety audit of all offices, hostels, community centres, etc. under the Department to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and recommend possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct a study to identify the socio-economic vulnerabilities of the tea tribes in Assam and recommend possible interventions.	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, Skill, Employment & Entrepreneurship Dept., All Edu. Depts., Universities & NGOs.	SDG-8 ¹⁹³ , PMTPA-4
	4. GIS/GPS Mapping of all Departmental infrastructure and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5

190. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

191. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

192. Reference: UN (<https://sdgs.un.org/goals/goal11>)

193. Reference: UN (<https://sdgs.un.org/goals/goal8>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (fire, floods, earthquake, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	9. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-1
	10. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	11. Setup systems to access early warning messages for lightning, storm, flood, etc. by the Department officials.	District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA & IMD.	NAPCC, INDC, SDG-11, PMTPA-1
	12. Develop/update content on integration of DRR & Climate Change Adaptation for the development of tea tribes in Assam and integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	13. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, etc.) based on the findings from the safety audit of all offices, hostels, community centres, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Fire Services.	NAPCC, INDC, SDG-11, PMTPA-1
	14. Develop Community Disaster Mitigation Project Proposals in line with State Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	15. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMTPA-5
	16. Promote solar-based electrification & rainwater harvesting in the offices and Departmental schemes in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ¹⁹⁴
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	17. Training of the Department officials on DRR and Climate Change Adaptation for the development of tea tribes in Assam.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-8
	18. Develop IEC materials on DRR and Climate Change Adaptation for the development of tea tribes in Assam.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	19. Print and distribute IEC materials, on DRR and Climate Change Adaptation for the development of tea tribes in Assam, for all offices.	State / District	Short Term (by 2024)	Dept. Annual Plan.		PMTPA-7
	20. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, hostels, community centres.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	

194. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.4.10 Department of Tourism

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, tourist destinations/sites & properties under the Tourism Dept. to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and possible remedial measures (retrofitting, rehabilitation, etc.) to be taken.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Dept. has initiated NDT for few old properties under Tourism Dept. Dept. Annual Plan. 		NAPCC ¹⁹⁵ , INDC ¹⁹⁶ , SDG-11 ¹⁹⁷
	2. Conduct safety audit of all offices, tourist destinations/sites & properties under the Tourism Dept. to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and possible remedial measures (retrofitting, rehabilitation, etc.) to be taken.	District / Sub-District	Medium Term (2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Cultural Affairs, Env. & Forest, Transport, Water Resources, Power, Irrigation, Agriculture, Industries & Commerce, Home & Political Depts., ASI, NHAI, DGCA, IWAI, Fire Services, Directorate of Geology & Mining	NAPCC, INDC, SDG-11, PMTPA-4
	3. Mapping of all restaurants, dhabas, hotels, etc. in Assam and create a database of those including the facilities available in them.	State / District / Sub-District	Medium Term (2026)	<ul style="list-style-type: none"> Budget available to advertise in major newspapers. Social media handles & operators. 	<ul style="list-style-type: none"> Support from Revenue & DM Dept. for data collection during trade license renewal. Support from DIPR for ads. 	PMTPA-5
	4. Conduct study to identify risks faced by tourism sector, successful models, and recommended actions for Assam.	State / District	Short Term (by 2024)	Undocumented knowledge & experience of the officials & staff.	Collaboration with ASDMA, Higher Edu. Dept., Cultural Affairs Dept., Universities, Technical Institutes, Tour Operators, Hospitality Businesses.	SDG-8 ¹⁹⁸ , PMTPA-4

195. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

196. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

197. Reference: UN (<https://sdgs.un.org/goals/goal11>)

198. Reference: UN (<https://sdgs.un.org/goals/goal8>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	5. GIS/GPS Mapping of all Departmental infrastructure, hospitality businesses, tourist destinations/sites, and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	DPR for 316 tourist destinations (places of natural beauty & historical importance) includes GPS coordinates.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	6. Share GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Available human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
Priority 2: Strengthening Disaster Risk Governance	7. Develop Department Disaster Management Plan & SOP on emergency response for officials of Tourism Department at all levels (State, District, Sub-District), covering fire, floods, earthquake, storm, lightening, etc.	State / District	Short Term (by 2024)	Available human resource at the state & district level.	Technical support from ASDMA.	
	8. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMTPA-1
	9. Support tour operators, hospitality businesses to develop SOP on emergency response, Business Continuity Plans (including insurance), etc.	State / District	Short Term (by 2024)	Existing working relation with hotel, tour operator associations.	Technical support from ASDMA.	SDG-9 ¹⁹⁹ , PMTPA-8
	10. Develop/update content on integration of DRR & Climate Change Adaptation in sustainable & disaster resilient tourism & integrate that in the training curriculum for the Department officials.	State / District	Medium Term (by 2026)	Existing training modules have component on First Aid.	Technical support from ASDMA, AASC, Fire Services, PWD (B&NH) Dept.	
	11. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	12. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/ Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1

199. Reference: UN (<https://sdgs.un.org/goals/goal9>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	13. Instruct Tour Operators, hospitality businesses, etc. to report financial losses due to disasters.	State / District / Sub-District	Short Term (by 2024)	Tourism Dept. is planning to develop the database.	Collaboration with ASDMA, Cultural Affairs Dept.	
Priority 3: Investing in DRR for Resilience	14. Take remedial measures (retrofitting, rehabilitation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, landslide, earthquake, etc.) based on the findings from the safety audit of all offices, tourist destinations/sites, properties under the Dept. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH), Cultural Affairs, Env. & Forest, Transport, Water Resources, Power, Irrigation, Agriculture, Industries & Commerce, Home & Political Depts., ASI, NHAI, DGCA, IWAI, Fire Services, Directorate of Geology & Mining.	PMPA-1
	15. Develop Disaster Mitigation Project Proposals for Disaster Resilient Tourism in line with Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Available human resource for proposal writing.	Technical support from ASDMA.	PMPA-1
	16. Establish Departmental MIS for prediction and forecasting of resource requirement, trained human resource, infrastructure/resource database (including damage and loss data), maintenance of reports, documents, etc. under Digital India programme.	State / District	Short Term (by 2024)	Available limited human resource and some IT equipment (computers, scanners, etc.).	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	17. Promote installation of solar based electrification/heating & rainwater harvesting in offices, tourist sites. Promote the same for hospitality businesses, etc.	State / District	Medium Term (by 2026)	Incentive for businesses to install renewable energy as per Tourism Policy.	Technical support from APDCL, Sci. & Tech. Dept.	NAPCC, INDC, SDG-7 ²⁰⁰
	18. Issue recommendations to ensure mandatory fitness and equipment in tourist vehicles (engine, body, etc.) and basic training for hospitality and first-aid.	State / District	Medium Term (by 2026)	Not available.	Technical support from Transport Dept.	
	19. Use flood, storm and lightning early warning system to inform tourists, tour operators, hospitality businesses, etc. through the Tourism app.	State / District	Short Term (by 2024)	Tourism app under development.	Technical support from ASDMA, IMD.	PMPA-5

200. Reference: UN (<https://sdgs.un.org/goals/goal7>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	20. Training of officials from the Tourism Department on monitoring of DRR in Tourism activities/projects and formation of state-district level joint monitoring teams.	State / District	Short Term (by 2024)	<ul style="list-style-type: none"> Existing training courses by AASC. Project monitoring app has been developed. Under testing stage. Dept. officials regularly go for site monitoring visits. 	Technical support from ASDMA.	PMPA-8
	21. Orientation of Tour Operators, Hospitality Businesses, etc. as per the Departmental DM Plan and SOP on emergency response and conduct mock drills.	District / Sub-District	Medium Term (by 2026)	Can participate in the Mock Drills organized by DDMA.	Technical support from ASDMA, NDRF, SDRF, Fire Services, NCC, Police.	PMPA-8
	22. Develop IEC materials on DRR and Tourism, etc.	State / District	Short Term (by 2024)	Budget available and empaneled agencies to develop IEC content.	Technical support from ASDMA, Info & PR Dept.	
	23. Print and distribute IEC materials on DRR and Tourism, etc. for public, staff, Tour Operators, Hospitality Businesses, etc. & also share it through media for public awareness.	State / District	Short Term (by 2024)	Budget available.		PMPA-7
	24. Organize awareness programmes Eco-Sensitive Tourism, Tourist Safety and Security, and share information through radio, print, TV, and social media.	State / District / Sub-District	Short Term (by 2024)	Dept. organizes awareness events regularly.	Collaboration with ASDMA, Info & PR, P&RD Depts., Tour Operators, Hospitality Businesses.	PMPA-7
	25. Inspect and install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers, etc. in all offices, vehicles, hotels, etc.	District / Sub-District	Medium Term (by 2026)	Budget available for purchasing/refilling fire extinguishers in offices.	Technical support from ASDMA & Fire Services to ensure in private properties.	
	26. Procure safety equipment, life-vests, PPE Kits, etc. for emergency response in properties under Tourism Dept. in case of any disaster.	State / District	Medium Term (by 2026)	Existing budget head available under Dept. budget.	Technical support from ASDMA, Health Dept., NDRF, SDRF, Fire Services.	

3.4.11 Department of Welfare of Minorities & Development

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, hostels, etc. under the Welfare of Minorities & Development Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC ²⁰¹ , INDC ²⁰² , SDG-11 ²⁰³
	2. Conduct safety audit of all offices, infrastructure schemes under the Dept. to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and recommend possible remedial measures (retrofitting, rehabilitation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct a study to identify the socio-economic vulnerabilities of the six notified religious Minority Communities and people living in char/chapori areas of Assam and recommend possible interventions.	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, Skill, Employment & Entrepreneurship Dept., All Edu. Depts., Universities & NGOs.	SDG-8 ²⁰⁴ , PMTPA-4
	4. GIS/GPS Mapping of all Departmental infrastructure and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMTPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMTPA-5
	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (fire, floods, earthquake, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	

201. Reference: Gol National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

202. Reference: Gol Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

203. Reference: UN (<https://sdgs.un.org/goals/goal11>)

204. Reference: UN (<https://sdgs.un.org/goals/goal8>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMPA-1
	9. Form state-district level joint monitoring teams to assess and monitor disaster preparedness, response, recovery, and mitigation in the Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-1
	10. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMPA-1
	11. Setup systems to access early warning messages for lightning, storm, flood, etc. by the Department officials.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA & IMD.	SDG-13 ²⁰⁵ , PMPA-5
	12. Develop/update content on DRR & Climate Change for the development of minorities and char/chapori areas and integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
Priority 3: Investing in DRR for Resilience	13. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, etc.) based on the findings from the safety audit of all offices, hostels, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC, INDC, SDG-11, PMPA-1
	14. Allocation of funds under various schemes such as 15th Finance Commission, Socio-Economic Development Programme, etc. for integration of DRR and Climate Change Adaptation components in all planned projects.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.		PMPA-1

205. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 3: Investing in DRR for Resilience	15. Develop Community Disaster Mitigation Project Proposals in line with State Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	16. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	17. Promote solar-based electrification & rainwater harvesting in the offices and Departmental schemes in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ²⁰⁶
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	18. Training of the Department officials on DRR and Climate Change Adaptation for the development of the Minority Communities and people in char/chapori areas.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-13, PMPA-8
	19. Develop IEC materials on DRR and Climate Change Adaptation for the development of the Minority Communities and people in char/chapori areas.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	
	20. Print and distribute IEC materials on DRR and Climate Change Adaptation for the development of the Minority Communities and people in char/chapori areas for all offices & also share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.		PMPA-7
	21. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers in all offices, hostels, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	NAPCC, INDC, SDG-11

206. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.4.12 Department of Welfare of Plain Tribes & Backward Classes

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Issue departmental order to conduct safety audit of all offices, hostels, community halls, bridges, etc. under the Welfare of Plain Tribes & Backward Classes Department to identify the structural vulnerabilities, hazard risks (fire, flood, earthquake, etc.) and possible remedial measures (retrofitting, reconstruction, relocation, etc.) to be taken.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC ²⁰⁷ , INDC ²⁰⁸ , SDG-11 ²⁰⁹
	2. Conduct safety audit of all offices, hostels, community halls, bridges, etc. under the Department to identify the structural vulnerabilities, hazard risks (fire, flood, landslide, earthquake, etc.) and recommend possible remedial measures (retrofitting, rehabilitation, etc.) to be taken.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC, INDC, SDG-11, PMTPA-4
	3. Conduct a study to identify the socio-economic vulnerabilities of the STs, SCs & OBCs of plain areas in Assam and recommend possible interventions.	State / District / Sub-District	Medium Term (by 2026)	Assam Institute of Research for Tribals and Scheduled Castes (AIRTSC)	Technical support from ASDMA, Skill, Employment & Entrepreneurship Dept., All Edu. Depts., Universities & NGOs.	SDG-8 ²¹⁰ , PMTPA-4
	4. GIS/GPS Mapping of all Departmental infrastructure and develop a database categorizing them as per their vulnerability (safe and unsafe).	State / District / Sub-District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., CSIR-NEIST, ASTEC, NESAC.	PMPA-5
	5. Share the GIS/GPS Database to be integrated with other departments.	State / District	Medium Term (by 2026)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-5
	6. Develop Departmental Disaster Management Plan, SOP & Contingency Plans for Emergency Response (fire, floods, earthquake, pandemic, etc.) for the Department officials at all levels (State, District, Sub-District).	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	

207. Reference: GoI National Action Plan on Climate Change (https://archivepmo.nic.in/drmanmohansingh/climate_change_english.pdf), (http://moef.gov.in/wp-content/uploads/2018/07/CC_ghosh.pdf)

208. Reference: GoI Intended Nationally Determined Contribution (INDC) - (<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/India%20First/INDIA%20INDC%20TO%20UNFCCC.pdf>)

209. Reference: UN (<https://sdgs.un.org/goals/goal11>)

210. Reference: UN (<https://sdgs.un.org/goals/goal8>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 2: Strengthening Disaster Risk Governance	7. Create a Departmental budget head & allocate funds for disaster mitigation, preparedness, research & contingency purpose.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from Finance Dept., ASDMA.	PMPA-1
	8. Integrate DRR Roadmap interventions and their sub-activities in the Departmental Annual Plan/Program Implementation Plan, Disaster Management Plan, and budgets.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-1
	9. Form state-district level joint monitoring teams to assess and monitor the integration of disaster preparedness, response, recovery, and mitigation components in the Departmental projects.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.		PMPA-8
	10. Mandatory integration of DRR and Climate Change Adaptation components during the planning, designing & implementation of all the projects/schemes under the Department.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA.	NAPCC, INDC, SDG-11, PMTPA-5
	11. Setup systems to access early warning messages for lightning, storm, flood, etc. by the Department officials.	District / Sub-District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA & IMD.	SDG-13 ²¹¹ , PMTPA-5
	12. Develop/update content on integration of DRR & Climate Change Adaptation for the development of STs, SCs & OBCs of plain areas in Assam, and integrate that in the training curriculum for the Department officials.	State / District / Sub-District	Short Term (by 2024)	AIRTSC	Technical support from ASDMA, Assam Admin. Staff College (AASC).	
Priority 3: Investing in DRR for Resilience	13. Take remedial measures (retrofitting, reconstruction, relocation, etc.) against the identified structural vulnerabilities and hazard risks (fire, flood, earthquake, etc.) based on the findings from the safety audit of all offices, hostels, community halls, bridges, etc. in phased manner.	State / District / Sub-District	Long Term (by 2030)	Dept. Annual Plan.	Technical support from ASDMA, PWD (B&NH) & Fire Services.	NAPCC, INDC, SDG-11, PMTPA-1
	14. Allocation of funds under various schemes such as Article 275(1), Special Central Assistance (SCA), State Plan, etc. for integration of DRR and Climate Change Adaptation components in all planned projects.	State / District	Medium Term (by 2026)	Article 275(1), Special Central Assistance (SCA), State Plan		NAPCC, INDC, SDG-11, PMTPA-1

211. Reference: UN (<https://sdgs.un.org/goals/goal13>)

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	15. Develop Community Disaster Mitigation Project Proposals in line with State Disaster Risk Mitigation Fund guidelines.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	PMPA-1
	16. Develop and implement an online reporting system (MIS) for documenting damage and loss related to Departmental assets (office, equipment, etc.) due to any disaster, injury/death of workers on duty, etc., in line with Digital India programme.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, IT Dept., NIC.	PMPA-5
	17. Promote solar-based electrification & rainwater harvesting in the offices and Departmental schemes in a phased manner.	State / District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from Power, Sci. & Tech. Depts.	NAPCC, INDC, SDG-7 ²¹²
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	18. Training of the Department officials on integrating DRR and Climate Change Adaptation for the development of STs, SCs & OBCs of plain areas in Assam.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA.	SDG-13, PMPA-8
	19. Develop IEC materials on integrating DRR and Climate Change Adaptation for the development of STs, SCs & OBCs of plain areas in Assam.	State / District	Short Term (by 2024)	Existing human resource at the state & district level.	Technical support from ASDMA, Info & PR Dept.	
	20. Print and distribute IEC materials on integrating DRR and Climate Change Adaptation for the development of STs, SCs & OBCs of plain areas in Assam, for all offices & share it through media for public awareness.	State / District	Short Term (by 2024)	Dept. Annual Plan.	Technical support from ASDMA, Info & PR Dept.	PMPA-7
	21. Install fire extinguishers, fire alarm, fire escape, water hydrant/sprinklers in all offices, hostels, community halls, etc.	District / Sub-District	Medium Term (by 2026)	Dept. Annual Plan.	Technical support from ASDMA & Fire Services.	NAPCC, INDC, SDG-11

212. Reference: UN (<https://sdgs.un.org/goals/goal7>)

3.5 Resilient Preparedness for Response

In this theme, the stakeholders will focus on critical life-saving response systems, early warning, search and rescue, first-aid, fire, emergency, and police services.

India's National Disaster Management Plan of 2019 has adopted the inter-governmental panel recommended definition for preparedness and response where response is defined as '*Actions taken directly before, during or immediately after a disaster in order to save lives, reduce health impacts, ensure public safety and meet the basic subsistence needs of the people affected*' and preparedness is defined as '*The knowledge and capacities developed by governments, response and recovery organizations, communities and individuals to effectively anticipate, respond to and recover from the impacts of likely, imminent or current disasters*'.²¹³ In the given context of both these concepts, Assam has its own unique positioning. Assam over the years has learnt lessons for strengthening its preparedness systems and capacities for responding to recurrent floods. These lessons have contributed towards injecting timely reviews, pre-positioning of human and material resources, early warning systems, evacuation and emergency shelter mechanisms, relief administration, and inter departmental coordination etc.

As a continuum of improvement, the state aspires to apply development programming lens to emergency preparedness and response thereby focusing on quality, equity, inclusion and gender transformation, timeliness, and adequacy of response in the context of flood. This also relates to continuously improving systems and capacities to deliver equally effective response for other forms of shocks and stresses that they state is already/possibly get exposed to. Particularly, the state recognizes that '*Effective, equitable and participatory emergency response is not feasible without understanding and responding to the specific needs, priorities and capacities of women, girls, men and boys in different age groups*²¹⁴; *people with disabilities, people with different barriers (e.g. cultural, linguistic, legal), older persons, indigenous communities, migrants and others, their organizations and networks*²¹⁵.' which itself indicates a paradigm shift in the approach to preparedness for response.

The National Disaster Management Plan, 2019 also identifies 21 major emergency functions and identified roles and responsibilities for different ministries, departments, and agencies at central and state levels to carry out these functions. These functions include- Communication; Cultural Heritage Sites, their Precincts and Museums' Protection and Preservation; Data Collection and Management; Disposal

of animal carcasses; Drinking Water/ Dewatering Pumps/ Sanitation Facilities; Early Warning, Maps, Satellite inputs, Information Dissemination; Evacuation of People and Animals; Fodder for livestock in scarcity-hit areas; Food and Essential Supplies; Fuel; Housing and Temporary Shelters; Management of the dead people; Media Relations; Medical care; Power; Public Health; Rehabilitation and Ensuring Safety of Livestock and other Animals, Veterinary Care; Relief Employment; Relief Logistics and Supply Chain Management; Search and Rescue of People and Animals; and Transportation. Through this Roadmap, the state of Assam envisions to address the existing and emerging priorities across and within these emergency functions to improve the quality, effectiveness, and efficiency of response through robust and improved preparedness at multiple levels. The departmental roadmaps defined in different thematic pillars (particularly those corresponding to priority four of the SFDRR under each departmental action plan) will contribute towards augmenting system wide preparedness. In this pillar, core emergency response functions and the actions at their level will be emphasized (which are not covered in departmental action plans) will be emphasized. The structuring of this pillar of the roadmap is guided by the following principles to augment preparedness for response capacities in the state:

- **Building on State's primary responsibility for response** - The National Disaster Management Act, 2005 and National Disaster Management Plan 2019 clearly outlines the responsibility of the Centre and the state in preparedness and response. The roadmap envisages building on and strengthening capacities of stakeholders to deliver effective, inclusive, gender sensitive, adequate and dynamic response for different anticipated and even unanticipated scenarios
- **Empowering local (district, sub-division, circle/block, Gaon Panchayat/Village) level decision makers** - The DRR Roadmap acknowledges that response to any disaster is local in the outset. For a state as diverse as Assam, the mechanisms, and systems for different scale of emergencies is also very diverse (e.g., Panchayats Vs. Village Councils in 6th schedule areas) Hence, continuous stimulus and injects flown to different levels of decision makers and responders on critical and risk informed decision making will define the efficiency, inclusivity, and adequacy of response. The roadmap promotes strategic interventions across thematic areas to empower local decision making and for preparedness and readiness to respond as well, the focus will be central.

213. NDMA (2019), National Disaster Management Plan, 2019. A publication of the National Disaster Management Authority, Government of India. November 2019, New Delhi available at <https://ndma.gov.in/sites/default/files/PDF/ndmp-2019.pdf>

214. IASC (2018), The Gender Handbook for Humanitarian Action (2nd Edition) available at https://interagencystandingcommittee.org/system/files/2018-iasc_gender_handbook_for_humanitarian_action_eng_0.pdf

215. UNDRR (2020), Words into Action Guidelines on Enhancing Disaster Preparedness for Effective Response available at https://www.prevention-web.net/files/53347_capstone.pdf

- **Respecting geo-spatial, demographic, socio-economic, socio-cultural, and other diversities to adopt ‘whole of society engagement’** - The state’s scenario and experience of disasters vary according to different existing diversities. The roadmap acknowledges and respects the role these diversities play in defining the nature and extent of preparedness and aspires to promote ‘whole of society engagement’ where specific needs *of men, women, boys, girls, elderly, disabled, economically poor in the different layers of social stratification, people representing different religions, tribes, castes etc living with different identities at different geographical locations* within the state are included, consulted, involved and their ownership towards preparedness for response is encouraged
- **Scenario driven capability-based preparedness** - As scenarios following the same hazard are often different in different locations within the state owing to different elements of exposure, vulnerabilities and coping capacities, the roadmap endorses and promotes the idea of defining different scenarios for emergencies and augment preparedness accordingly. Be it through the process of District Disaster Management

Plans, Hazard Specific Contingency Plans (such as flood contingency plans) Gaon Panchayat/Village level disaster management plans, the process to define scenarios (primary and secondary impacts learning lessons from flood and COVID-19) will be promoted and accordingly investments will be directed to address the differential scenarios. Mock drills so designed will be staged to different scenarios and participation of the different stakeholders including the population at risk will be ensured to test efficacy and effectiveness of plans and clarity of action at different levels

- **Ensuring coordinated actions in preparedness and response** - The Roadmap acknowledges the role of diverse stakeholders in preparedness and response. It also recognizes that emergency coordination mechanism becomes functional in time if preparedness coordination is effectively managed. Therefore, the roadmap promotes intra and inter emergency function coordination involving government, non-government, private and social groups/institutions who have/play a role in response. The SDMA, DDMA, CDMCs and VLCDMCs will act as platforms for different levels of preparedness coordination in this regard.

SFDRR Priority	Action	Corresponding Emergency Function	Responsible Department/ Agency	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Undertake GPS analysis to develop alternate route map for all villages falling under high-risk category as per flood hazard atlas.	Evacuation of People and Animals	ASDMA and DDMA	State	Short Term (2024)	DM Budget of ASDMA, Capacity building grant (SDRF)	NESAC for technical support,	PMPA-5
	2. Conduct feedback analysis on utility, effectiveness, and areas of improvement of flood and lightning early warning systems from administration of response point of view involving all relevant stakeholders and recommend multi-hazard early warning dissemination system for reaching the last mile.	Early Warning, Maps, Satellite inputs, Information Dissemination	ASDMA	State	Medium Term (2026)	DM Budget of ASDMA, Preparedness grant (SDRF)	IMD, NESAC, CWC, FREMAA, DDMA, local administration	SDG Goal 13

	3. Develop and expand early warning systems for hazards like earthquake, forest fires, possible heat-waves, dam overflow/collapse, industrial disasters, etc. in the context of Assam.	Early Warning, Maps, Satellite inputs, Information Dissemination	IMD, NESAC, Higher Educational Institutes with appropriate capacity and human resource	State	Long term (2030)	Externally aided projects, SDMF, DM budget, Crowd Funding	ASDMA, line departments as applicable	Multiple SDGs, Paris Agreement, UN Decade on Ecosystem Restoration, PMTPA-5
	4. Develop and strengthening disaster management information system (augmenting flood reporting and information management system) to improve real-time availability of data on men, women, boy, girls, persons with disability, elderly, people living below poverty line and with other vulnerabilities affected by disasters as well as systems and services affected.	Data Collection and Management	ASDMA	State	Medium Term (2026)	DM Budget of ASDMA, SDMF	NDMA, NIC, Technical Agencies with data management and IT expertise	Across SDG Goals, Grand Bargain Commitment, Paris Agreement, PMTPA-5
	5. Undertake an assessment of direct and indirect losses and impacts of disasters including damage/impacts upon infrastructure, services, and loss of operational days across sectors.	Data Collection and Management	ASDMA	State	Medium Term (2026)	DM Budget of ASDMA, SDMF	NDMA, UN Agencies, technical higher education institutes with expertise in DM	PMTPA-9
	6. Undertake an analysis to project possible impact scenarios for different districts in the context of multi-hazard occurrence and with complex primary and secondary impact of disasters. The state projections to be used by DDMA to develop sub-district and local level scenarios to serve as ready reference for planning.	Data Collection and Management	ASDMA	State and District	Medium Term (2026)	DM Budget of ASDMA, SDMF	NDMA, UN Agencies, technical higher education institutes with expertise in DM, CSO/NGOs and other relevant stakeholders	PMTPA-4

7. Conduct a market assessment from within and outside (nearby) states and develop an inventory at state level of manufacturers, service providers, technical experts and responder which will be handy for procurement of goods and services covering all emergency functions by district/local administration and if needed by departments at state level.	Relief Logistics and Supply Chain Management	ASDMA	State level	Medium Term (2026)	Preparedness grant (SDRF)	CII, FICCI, ASSOCHAM and other industry bodies, professional associations, and networks	PMTPA-4
8. Develop AI powered database ²¹⁶ at state level of various cadre of volunteers including Pratirodhi Bandhu, Apada Mitra, Civil Defence, Red Cross, NCC, NSS, NYKS, volunteers with CSO/NGOs, youth networks, student associations with their current location, contact details unique identify for emergency use.	Evacuation of People and Animals; Housing and Temporary Shelters; Management of the dead people; Relief Employment; Search and Rescue of People and Animals and Transportation	ASDMA	State level	Medium Term (2026)	Preparedness grant (SDRF)	Civil Defense, Red Cross, NCC, NSS, NYKS, CSO/NGOs and their network, Youth Organizations and Associations	PMTPA-5
9. Conduct a holistic analysis and develop a robust inventory of existing and possible emergency shelters including relief camps, raised platforms, roads, embankments, and other places where people take/ can possibly take shelter with their GPS coordinates.	Housing and Temporary Shelters	ASDMA and DDMA	State & District levels	Medium Term (2026)	Preparedness grant (SDRF)	NESAC and other technical agencies/institutes	PMTPA-4

216. The database shall have provision for self-updating in case of change of location, contact details and withdrawal of willingness to volunteer by the volunteers themselves and should provide trajectories/projections for availability at any given point of time.

Priority 2: Strengthening Disaster Risk Governance	10. Ensure system of 'scenario based' contingency plans to floods and other seasonal hazards locating their possible interaction with other hazards, primary secondary impacts and defining actions, responsibilities, timelines, and accountabilities accordingly.	All Emergency Functions	All line departments at all levels, ASDMA, DDMA, CDMCs and VLMCCs	State, district, circle, GP/ Village levels	Medium Term (2026) and then regular	Regular departmental resources	Consulting all emergency support functions at respective levels	
	11. Develop a robust system of building (in a phased manner) capacity of Circle Disaster Management Committees, Gaon Panchayats/VDCs and Village Land Management and Conservation Committees to lead local level response to any disaster.	All Emergency Functions	ASDMA and DDMA	State, district, circle, GP/ Village levels	Medium Term (2026) and then regular	Capacity Building (SDRF)	Support of related Line Departments particularly H&FW, PHED, Police, Social Welfare, P&RD, Power, F&CS etc	
	12. Streamline and strengthen emergency procurement processes by establishing binding MoUs, Long Term Agreements to empanel of manufacturers, service providers, technical experts and responders (based on inventory developed) which can be easily used for procurement and distribution at district and even at state level as per need.	Relief Logistics and Supply Chain Management	ASDMA and DDMA	State and District Levels	Medium Term (2026) and then regular	Regular departmental resources, preparedness grant (SDRF)	All related line department	Multiple SDGs
	13. Adapt/regularly update SoPs at state and district level and train responsible functionaries to address 'modus operandi' of each of the emergency functions in line with state IRS and updated national guidelines.	Relief Logistics and Supply Chain Management	All lead ESFs coordinated by ASDMA	State	Short term (then regular)	Regular departmental resources	All related line department	Multiple SDGs, PMTPA-8

Priority 2: Strengthening Disaster Risk Governance	14. Identify feasible locations and develop a system of strategic pre-positioning of identified 'go-to' supplies based on analysis of previous responses at hard-to-reach areas to cover remote riverine island areas, hilly areas, distant flood prone areas and other such pockets.	Relief Logistics and Supply Chain Management	All lead ESFs coordinated by ASDMA	State, district, circle, GP/ Village levels	Medium Term (2026) and then regular	Regular departmental resources SDRF (response)	All related ESFs	
	15. Develop IT based single platform for assessment and compensations as Direct Cash Transfer/Direct Benefit Transfer to affected people within different permissible areas of SDRF and CM's Relief Fund.	Relief Logistics and Supply Chain Management	Revenue and DM	State level	Short Tern (2024)	Regular budget	Consultation with related departments	PMTPA-5
	16. Develop ' Response Performance Evaluation System ' to rank districts through a community-based feedback mechanism using social media-based tools on different emergency functions. An incentivization scheme for top performing districts to be developed for sustaining the system.	All Emergency Functions	Revenue and DM	State level	Short Tern (2024)	Regular budget	All Emergency Functions	PMTPA-9
	17. Develop systems and protocols (regularly update) to receive and distribute relief and emergency supplies received from different parts of the country and beyond along with transportation arrangements with alternatives to distribute using multiple options for reaching the hardest to reach/worst affected areas.	Relief Logistics and Supply Chain Management and Transport	Transport department, AAI, NFR, In-land Water Transport Department coordinated by ASDMA	State level with systems in strategic locations	Medium Term (2026) and then regular	SDRF	Convened by concerned departments involvement of airport, railway stations,	

Priority 3: Investing in DRR for Resilience	18. Invest on upgrading infrastructure, capacity, and facilities in identified relief camps/shelters with child friendly spaces for multi-purpose use with a target of having a multi-purpose shelter per 10,000 population in high-risk areas and achieving 100% ISO certification.	Housing and Temporary Shelters	Revenue and Disaster Management Department	At strategic locations in all hazard's prone districts	Long term (2030)	Multiple financial windows	PWD (B), PWD (Roads), Power, PHED, Education (for school buildings), P&RD etc	PMPA-1	
	19. Invest on procurement, adequate stockpiling and regular maintenance of search and rescue equipment's (climate friendly) at revenue circle/F&ES/ Police Station level (as feasible) including boats, boat/surface ambulances and others as per SDRN priorities.	Search and Rescue of People and Animals; and Transportation	Revenue and DM Department, Home Department, F&ES, SDRF	District and Revenue Circle/ Police Station/ FES Station level		Medium Term (2026)	NDRF, SDRF and other relevant financial windows	Health and Family Welfare, PHED, Power, PWD, WRD etc as per need	
	20. Stock take engagement of SDRF and volunteers in the last 5 years in responding to crisis events and increase SDRF companies/ volunteer numbers for areas where such needs are felt based on engagement analysis.	Search and Rescue of People and Animals	ASDMA, F&ES, Civil Defense	State level		Short Term (2024) for stock taking and mid-term (for raising strength)	NDRF, SDRF and other relevant windows	IRCS, NSS, NCC, NYKS, CSO/NGOs and their networks	
	21. Invest on state level research to identify green technologies to replace use of plastic and other such materials used in emergency response such as plastic water pouches used for provisioning safe water to affected people.	All Emergency Functions	ASDMA and departments responsible for the emergency functions	State level		Medium Term (2026)	Regular budget of the departments	Higher Education Institutes with capacity and mandate	SDG 9, 12,13,15
	22. Invest on technologies and tools as well as systems for strengthening ' Early Warning Dissemination Mechanism ' to the last mile using multiple tools having feedback loop.	Early Warning, Maps, Satellite inputs, Information Dissemination	ASDMA	State level		Medium Term (2026)	Externally aided projects, regular DM budget, SDMF/ NDMF	NESAC, CWC, IMD and technical agencies as per existing responsibility frameworks	SDG 9, 13, 15 Paris Agreement, WMO

Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	23. Develop and conduct multi-hazard scenario-based simulation exercises to test actual response capacities at different levels including those for public health emergencies, industrial disasters, technological disasters, conflicts, and violence, etc.	All Emergency Functions	ASDMA with NDRF, SDRF, other ESFs	District, Revenue Circle/ unit level	Regular	Regular DM Budget of ASDMA	Academic institutions, CSOs/ NGOs, Youth networks, community leaders and responders	
	24. Continue building capacity of emergency responder at all levels through classroom trainings, tabletop simulations, demonstrations, and organized drills.	All Emergency Functions	ASDMA with relevant agencies	District, Revenue Circle/ unit level	Regular	SDRF (Capacity Building)	Academic institutions, CSOs/ NGOs, Youth networks, community leaders and responders	PMTPA-8
	25. Strengthen State and District Emergency Operation Centres and their functioning in peace time with frequent coordination meetings involving IRS structures and other response partners.	All Emergency Functions	ASDMA and DDMA	All levels	Mid Term (2026)	NDMF and other applicable financial windows	As per existing IRS notification, CSOs/ NGOs, CSR groups, youth networks, associations, etc.	
	26. Procure/Upgrade and ensure regular maintenance through testing of mobile response equipment such as Mobile power supply units, mobile water treatment/supply units, mobile medical units/boat clinics, road construction, garbage clearing equipment, etc.	All Emergency Functions	ASDMA and DDMA	All levels	Mid Term (2026)	NDMF and other applicable financial windows	All departments as per existing IRS	
	27. Develop a system to systematically test operation of specifically response services for special at-risk groups such as children, pregnant and lactating women, elderly, disabled, people with chronic illnesses, etc. and augment operationalization of innovative approaches like child friendly spaces.	All Emergency Functions	ASDMA and DDMA	In high-risk areas	Regular	SDRF (preparedness)	All departments as per existing IRS and SoPs	

3.6 Resilient Recovery and Building Back Better

Assam is a uniquely placed state in the whole country where disaster recovery is also seen as a yearly process. As a result of annual floods which result in huge losses and impacts, the recovery is never seen as complete or full and often tagged as ongoing at family, community or systems level. Often the gaps in recovery lead to widening of development deficiencies increasing challenges in the efforts to reduce them. Different sectors experience the annual recovery phenomenon at different levels. Besides this, Assam has other potent hazards which can result in massive losses and impacts and will require a holistic recovery planning and approach. Therefore, an approach that clearly estimates, predicts, channelizes, and executes all available options to ensure optimum utilization for aligning with the principle of 'Building Back Better' is of outmost importance for envisioning a disaster resilient Assam.

The DRR Roadmap envisages defining a broader pathway that can ease the process towards recovery from recurrent as well as latent hazards more predictable, efficient and equity driven. Whereas, the 15th Finance Commission Report recommends 30% of the State Disaster Risk Management Fund (under SDRF) to be allocated for 'Recovery and Reconstruction' and the draft 'National Guidelines for Recovery and Reconstruction' is being shared for inputs from stakeholders, this DRR Roadmap adopts the definition of recovery as outlined in the draft guidelines as **"comprehensive process of socio-economic interventions and physical reconstruction through which households and communities rebuild their assets, restore their livelihoods and strengthen their capacities to manage the impacts of a future disaster"**²¹⁷. For the recovery pathway to be effective, the DRR Roadmap establishes the direction within which the state will strive towards strengthening systems and capacities for meaningfully, effectively, and efficiently addressing recurrent and possible disaster recovery needs.

3.6.1 Key Guiding Principles for policy and planning pertaining to resilient recovery

This DRR Roadmap recommends the following principles to be adopted which is in alignment with the draft national guideline and addresses the state specific scenario and needs:

1. **Differential approach for specific situations** - This DRR Roadmap underscores the importance of taking a differential disaster recovery approach for different situations. Particularly, the differential approach will consider evolving contextualized procedures to address annual recovery needs created by seasonal hazards such as floods and those anticipated needs that may emerge in the face of a latent mega disaster such as earthquake. The differential approach will allow optimum utilization of resources and effective addressal of needs.
2. **Building Back Better** - As emphasized in the Sendai Framework for Disaster Risk Reduction and adopted in the approach to National Disaster Management Plan, 2019, this DRR Roadmap envisages that in all practical ways possible, the approach to disaster recovery in Assam after any disaster will emphasize upon resilience of systems and communities in the state by considering disaster risks (existing and possible) into the restoration of physical infrastructure and governmental and societal systems; revitalization of livelihoods, state's economy, and the environment²¹⁸.
3. **Transferring Resources to affected people** - The 15th Finance Commission clearly outlines the importance of transferring resources to people at risk. Transferring resources to people at risk only helps them cope with losses at hand but also provides them with choices to augment their resilience by investing in different elements of risk reduction. This will also contribute towards improving their overall wellbeing and dealing with some of the existing deprivations such as poverty, malnutrition, vulnerable livelihoods etc. Therefore, all types of disaster recovery programs shall imbibe this principle in design and implementation.
4. **Addressing Geo-Spatial Diversities** - Assam is a state with different levels of geo-spatial diversities and the overall human development is assessed based on those. The latest Human Development Report of the state which was released in 2014 classified different development blocks according to geo-spatial diversities which include general blocks, multi-diversity blocks, border blocks, hilly blocks, flood affected blocks and char blocks²¹⁹. While these diversities overlap in certain contexts, any disaster recovery program must consider these diversities for effective planning, execution, and results.

217. Draft National Guidelines on Recovery and Reconstruction available at http://www.ssdma.nic.in/Uploads/PdfFiles/Guidelines_Recovery_Reconstruction-India_draft_DLoomba.pdf

218. Adopted and interpreted from UNDRR (2017), Build Back Better in recovery, rehabilitation and reconstruction, Consultative Version available at https://www.unisdr.org/files/53213_bbb.pdf

219. GoA (2014), Assam Human Development Report available at https://transdev.assam.gov.in/sites/default/files/swf_utility_folder/departments/pndd_medhassu_in_oid_2/portlet/level_1/files/FINAL_Assam_HDR_2014.pdf

- 5. Shared responsibilities** - In order for any disaster recovery program to work in the state of Assam, it must be designed and built by sharing responsibilities. Recovery is accepted as one of the most complex steps in disaster management because it increases stakeholder base. As experiences with floods in Assam; other than government departments; a host of NGOs, private sector companies, associations and networks, local platforms, individuals in different roles play an important role in supporting communities recover from the losses and impacts. It is important that these efforts are well planned, coordinated and shared for reducing duplication, increasing scope, speed, and efficiency of recovery.
- 6. Social Inclusion and equity driven process** - As geo-spatial diversities play a major role, so do the socio-cultural diversities in all aspects of the state's existence and development. Assam has very rich socio-cultural mix of different groups. It is important for any disaster recovery program to consider the socio-cultural diversity by assessing the differential impact on different social groups and by ensuring that diverse social groups particularly those with multidimensional vulnerability are involved in all phases including assessment, design, implementation, monitoring and evaluation of the recovery programs. Not only their concerns and perspectives, but also their local knowledge and experiences shall form a basis for planning. It is also important to consider the demographic dividends in the process and ensure that children and young people, women, persons with disability, elderly, people with chronic diseases, people living with poverty are consulted and involved in all stages by design.
- 7. Gender Transformation** - Applying gender transformation lens is crucial for types of policy and program to achieve sustainable development. This DRR Roadmap envisages that any recovery policy or program be designed as gender transformative addressing gender concerns in a transformative manner.
- 8. Accountability to affected population** - The principle of accountability to affected population implies use of power (such as resources for recovery, decision making, etc.) by government agencies and other stakeholders at different levels by taking account of, giving account to, and being held to account by the people²²⁰ in all phases including assessment, design, implementation, monitoring and evaluation of the recovery programs. This would essentially mean inclusive governance, transparency in the process, vibrant feedback and compliant mechanisms and participation of affected population across phases.
- 9. Optimum utilization of available resources** - Any disaster recovery program will be guided by the principle of optimum utilization of available and possible resources for recovery. This would mean structured and convergent programs with national and state flagship programs across sectors, channelizing other financials windows SDRF and NDRF (if applicable), external aid, etc. to meet the gaps at different levels in different sectors.

220. Inter-Agency Standing Committee (IASC) brief on the essential linkages between Accountability to Affected Populations (AAP) and Prevention of Sexual Exploitation and Abuse (PSEA) available at https://interagencystandingcommittee.org/system/files/aap_psea_2-pager.pdf

SFDRR Priority	Action	Responsible Department/Agency	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Undertake analysis to define sector/hazard specific recovery needs and gaps based on historical data.	ASDMA/Revenue & DM Department in partnership with technical institutes existing in the state	State	Medium Term (2026)	SDRF	NA	SDG 13, PMTPA-4
	2. Develop recovery scenarios using available models to project resource requirements and planning for recovery priorities.	ASDMA/Revenue & DM Department in partnership with technical institutes existing in the state	State	Medium Term (2026)	SDRF	NA	SDG 13
Priority 2: Strengthening Disaster Risk Governance	3. Develop a database of experienced professionals with skills and expertise in diverse areas such as housing, urban planning, livelihoods, infrastructure development, procurement, financial management and disaster risk management who can be hired for PDNA/Recovery programs based on need.	ASDMA/Revenue & DM Department	State	Medium Term (2026)	ASDMA's regular resources	NA	
	4. Develop state specific template for conducting Post Disaster Needs Assessment PDNA India, in accordance with the Tools – the Handbook, the Manual and the SoP – prepared by the Government of India through the National Institute for Disaster Management (NIDM) and other tools developed by UN Agencies, World Bank, etc.	DRR Roadmap implementation Support Unit	State	Short Term (2024)	ASDMA's regular resources	NA	Multiple SDG Goals particularly 1 and 13
	5. Develop and finalize tools and templates (drafts) for PDNAs conducted for different scenarios with different modalities (for example for recurrent floods and that for a large-scale disaster).	DRR Roadmap implementation Support Unit	State	Short Term (2024)	SDRF	NA	
	6. Review existing hazard specific recovery/reconstruction guidelines and develop a state specific recovery framework with financial specification against identified various components identified under the pillars of physical recovery, economic recovery, social recovery, and cross cutting issues.	DRR Roadmap implementation Support Unit	State	Medium Term (2026)	SDRF	NA	

Priority 2: Strengthening Disaster Risk Governance	7. In consultation with NDMA/ Gol, develop a state resource centre within ASDMA for facilitating disaster recovery which will support development and management of roster of experts, setting up an arrangement through which the roster of experts can be engaged, coordinating the PDNA, support preparing recovery plans for various sectors and in monitoring and evaluating recovery programs.	ASDMA/Revenue & DM Department	State	Medium Term (2026)	SDRF/ NDRF/ Externally Aided Project	NA	
	8. In alignment with national guidelines, develop state specific guidelines for release of allocations under various financial windows (as outlined in the DRR Roadmap) for recovery and reconstructions.	ASDMA/Revenue & DM Department	State	Medium Term (2026)	NA	NA	
	9. Develop templates for planning, proposals, budgets etc. as well as reporting templates with pre-defined broad indicators, quality assurance standards that can be readily referred to by stakeholders for accessing disaster recovery resources from various available financial windows.	DRR Roadmap implementation Support Unit	State	Short Term (2024)	NA	NA	
	10. Develop a database of potential partners, service providers, vendors and establish a contingency mechanism in accordance with existing procurement processes for potential engagement during a multi-sector recovery program.	ASDMA/Revenue & DM Department	State	Medium Term (2026)	NA	NA	PMPA-8

Priority 3: Investing in DRR for Resilience	16. Develop State Disaster Recovery Portal (IT based preferably powered by latest technologies including AI, Space Technology) to act as one stop decision support system for disaster recovery in the state along with features to provide recovery planning information and knowledge management platform including establishment of MoU with relevant technical agencies for technology transfer/maintenance/ upgradation of the portal.	ASDMA and Relevant departments owning infrastructure in collaboration with technical agencies such as IIT-G, AEI, NIT, CIT, CSO networks, Universities, etc.	State	Long Term (2030)	SDRF/NDRF	NA	PMTPA-5
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	17. Design and execute customized and sector specific disaster recovery simulation exercise (tabletops for assessment and planning) with DDMA and local administration involving relevant stakeholders.	ASDMA with DDMA	District and RC level	Medium Term (2026)	Regular Programs	NA	PMTPA-8
	18. Strengthen coordination within and between stakeholders particularly departments, CSOs, private sector, trade unions, women groups and federations, youth associations for disaster recovery.	ASDMA with relevant stakeholders	State, District and RC level	Medium Term (2026)	Regular Programs	NA	PMTPA-8
	19. Establish in advance sector-specific state-level recovery support groups or functions in order to organize and coordinate pre- and post-disaster recovery assistance requested by and provided to disaster affected communities.	ASDMA with relevant stakeholders	State, District and RC level	Medium Term (2026)	Regular Programs	NA	PMTPA-8
	20. Review relevant sources and develop/update a pre-disaster social, economic, environmental, demographic, and other development baselines and indicators to which post-disaster assessment data will be compared in order to fully contextualize recovery planning efforts.	DRR Roadmap Implementation Support Unity	State and District Level	Short Term (2024)	NA	NA	All SDG Indicators

3.7 Shared Resilience & Ensuring Results

The National Disaster Management Plan (NDMP) 2019 clearly outlines the roles of various stakeholders in implementing the disaster risk reduction priorities for the country in alignment with the global frameworks. The concept of shared resilience for Assam Disaster Risk Reduction endorses the idea of shared responsibilities for financing disaster resilience and sustainable development. This concept builds on the legal framework provided under the National Disaster Management Act, 2005 and covers the following broad windows for accessing financial resources for implementing the DRR Roadmap intervention:

Window 1	Legal provisions under specific sections of the National Disaster Management Act that provide for financing risk reduction priorities and actions and as outlined in the National Disaster Management Plan (<i>allocation under specific plans/instruments</i>)
Description	<p>The National Disaster Management Plan, 2019 points to specific sections which mandates financing of disaster risk management at multiple levels by the government. Some of the statutory provisions which mandate allocation of funding by state government and departments as outlined in the NDMP, 2019²²¹ include:</p> <ul style="list-style-type: none"> • Section 18 (2) (f) provides that SDMAs may recommend provision of funds for mitigation and preparedness measures • Section 38 (2) (d) provides that the State Government may allocate funds for measures for prevention of disasters, mitigation and capacity building and preparedness by the departments of the Government of the State in accordance with the provisions of the State Plan (SDMP) and the District Plans (DDMP). • Section 39 (c) provides that the departments of the state government shall allocate funds for prevention of disaster, mitigation, capacity building and preparedness <p>Other than the above specific sections, the Act holistically addresses disaster risk management cycle by assigning specific responsibilities to SDMAs and different departments of the state government. It has been proposed and accordingly approved by the State Government to allocate 3 percent of the State's budget (non-salary, non-wages, and non-pension) for implementing the DRR Roadmap by various departments.</p> <p><i>The DRR Roadmap interventions will be integrated in subsequent State, Departmental and District Disaster Management Plans developed/updated from time to time, and allocations be subsequently drawn from specific resources.</i></p>

221. NDMA (2019), National Disaster Management Plan, 2019

Window 2	Provisions made as per the recommendation of the 15 th Finance Commission (FC-XV), SDRMF, NDRMF																											
Description	<p>The 15th Finance Commission building on the learning and progress made in the disaster management domain has presented a very robust Roadmap for disaster management financing. The 15th FC Report²²² identified two broad weaknesses of the existing disaster risk financing mechanisms tagged as ‘contingent liabilities’²²³. One, the existing focus on ‘meeting’ the contingent liabilities and not ‘reducing’ them. Second, lack of ‘multiple instruments and funding windows’ to cater to increased risk exposure and possibility of increased ‘contingent liabilities’. Therefore, the 15th FC recommended the constitution of State Disaster Risk Management Fund and National Disaster Risk Management Fund.</p> <p>State Disaster Risk Management Fund:</p> <p>The 15th FC recommended that total State allocation for SDRMF should be divided into State Disaster Response Fund and State Disaster Mitigation Fund. As per the recommendation, the SDRF should be allocated 80% of the total SDRMF, while the SDMF should be allocated remaining 20%. Within the SDRF allocation of 80%, should comprise of three sub-allocations including Response and Relief (40%), Recovery and Reconstruction (30%) and Preparedness and Capacity-building (10%). The report also establishes that funding windows of SDRF and SDMF are not inter-changeable; however, flexibility for re-allocation within the three sub-allocations under SDRF is possible. The allocation for Assam as per the 15th FC report are as follows:</p> <table border="1" data-bbox="389 793 1060 1194"> <thead> <tr> <th colspan="3">SDRMF Allocations to Assam as per 15th FC Report²²⁴</th> </tr> <tr> <th colspan="3">(Rupees in Crore)</th> </tr> <tr> <th>Year</th> <th>Union Share</th> <th>State Share</th> </tr> </thead> <tbody> <tr> <td>2021-22</td> <td>772</td> <td>86</td> </tr> <tr> <td>2022-23</td> <td>811</td> <td>90</td> </tr> <tr> <td>2023-24</td> <td>851</td> <td>95</td> </tr> <tr> <td>2024-25</td> <td>895</td> <td>90</td> </tr> <tr> <td>2025-26</td> <td>939</td> <td>104</td> </tr> <tr> <td>Total</td> <td>4268</td> <td>474</td> </tr> </tbody> </table> <p><i>The State Disaster Mitigation Fund which will be 20% of the above allocation and the Capacity Building Sub-Allocation which is 10% of State Disaster Response Fund will be the primary source of financing the interventions as envisaged in the DRR Roadmap. However, this will include only those interventions which will be aligned to subsequent guidelines to be issued by Gol. Particularly, those interventions outlined in this DRR Roadmap which are ‘local level and community-based interventions which reduce risks and promote environment-friendly settlements and livelihood practices’ will be channelized through this window for accessing funding following due procedure.</i></p> <p>National Disaster Risk Management Fund:</p> <p>The National Disaster Risk Management Fund is recommended to be the national disaster reserve to supplement the SDRF. The allocation under National Disaster Risk Management Fund is suggested to be in line with the State Disaster Risk Management Fund. <i>Adhering to the guidelines so received from Gol, specific interventions under this DRR Roadmap will be converted to proposals for access the NDMF Funding window. The entire process will be guided by the process and steps prescribed in the central guidelines and will only be conceived if the said intervention is over and above the SDMF but still aligns with the NDMF guidelines.</i></p>	SDRMF Allocations to Assam as per 15 th FC Report ²²⁴			(Rupees in Crore)			Year	Union Share	State Share	2021-22	772	86	2022-23	811	90	2023-24	851	95	2024-25	895	90	2025-26	939	104	Total	4268	474
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222. Finance Commission, Gol (2020), Finance Commission in COVID Times, Report for 2021-26, Main Report, Volume 1, October 2020 https://fincom-india.nic.in/writereaddata/html_en_files/fincom15/Reports/XVFC%20VOL%20I%20Main%20Report.pdf

223. Contingent liabilities refer to (government) obligations that are triggered when a potential, but uncertain, future event occurs. The allocations made through the SDRF and NDRF help governments meet their contingent liabilities

224. Annexes to 15th Finance Commission Report (pp-320) https://fincomindia.nic.in/writereaddata/html_en_files/fincom15/Reports/XV-FC%20-VOL%20II%20Annexes.pdf

Window 3	Risk Informing regular government schemes and programs
Description	<p>Various Government departments implement their sectoral/thematic programs including in areas exposed to different disaster risks. The concept of risk informing regular government programs builds on the rationale that regular programs and their envisaged results are impacted by disasters and hence they must adopt risks informed adaptive programming measures to reduce such impacts.</p> <p>Therefore, within the agreed budget lines and existing financial frameworks, interventions, to reduce disruption or damage to departmental program results, should be based on a program specific risks and impact analysis.</p> <p>The existing examples include 'Comprehensive School Safety and Security Program' by Education Department, 'Climate Change and Health' related programs by Health Department, 'Flood Resilient Crop Promotion' Programs by Agriculture Department etc. The basic principle of risk informing regular departmental program lies in the fact that the disaster risk reduction interventions become a part of core programming plan and are not treated as special/separate disaster risk reduction programs</p> <p>Thus, those actions as outlined in this DRR Roadmap which are possible within the ambit of the existing schemes/funding frameworks, shall be integrated as part of Program Implementation Plans for state government schemes/programs. Each department is required to mark such activities in their departmental roadmap which will form part of their annual plan of action/Program Implementation Plan</p>
Window 4	Flexi Funds under Centrally Sponsored Schemes (CSSs) in the context of Assam
Description	<p>The flexi -funds provide for a sustained source of funding for mitigation activities which are aligned to the objectives of the Centrally SS(s) under which they are allocated. However, it is one-dimensional funding window which can only be used for intervention specific to one sector/department's function and shall not be used for any activity which is outside the ambit of the programme.</p> <p>As per Office Memorandum issued by Department of Expenditure, Ministry of Finance, the NITI Aayog has issued instructions for rationalization of Centrally Sponsored Schemes (CSSs), vide OM No. O111013/02/2015-CSS & CMC dated August 17, 2016, through which the flexi funds available under CSSs have been increased to 25% for States, and 30% for UTs of their overall annual allocation. One of the three objectives stated in the OM regarding use of Flexi Fund refers '<i>To undertake mitigation/ restoration activities in case of natural calamities, or to satisfy local requirements in areas affected by internal security disturbances</i>²²⁵'.</p> <p>However, the 15th Finance Commission report puts to record that Flexi Funds are not actually used for mitigation activities²²⁶. It also clearly outlines that '<i>large scale interventions such as construction of coastal walls, flood embankments, etc.</i>' which are highly resource intensive '<i>should be pursued through regular development schemes and not from the mitigation fund</i>²²⁷'.</p> <p>In the above context, specific interventions as outlined in this DRR Roadmap will be pursued by respective departments to categorize and include under specific window including appropriate use of the flexi fund to implement relevant interventions which are linked to the objectives of the specific CSSs.</p>

225. NDMA (2019), National Disaster Management Plan, 2019

226. Finance Commission, GoI (2020), Finance Commission in COVID Times, Report for 2021-26, Main Report, Volume 1, October 2020 https://fincomindia.nic.in/writereaddata/html_en_files/fincom15/Reports/XVFC%20VOL%20I%20Main%20Report.pdf (pp-234)

227. Ibid (pp-235)

Window 5	Externally Aided Projects from Multi-lateral and Bilateral donors
Description	<p>Assam has been working in partnership with Multi-Lateral and Bi-Lateral Donors to raise funding for specific development as well as disaster risk reduction initiatives. Historically, the World Bank and Asian Development bank have provided funds/loans to infrastructure (mainly structural) intervention related to flood risk management such as embankments. Funds have also been mobilized to support targeted non-structural activities for specific geographic locations. Government of India agencies including Ministry of Development of Northeast Region (MoDoNER), Northeastern Council (NEC) have also been supporting projects covering structural and non-structural mitigation activities by specific departments/agencies. UN Agencies particularly UNICEF and UNDP have also been working with the state government on various elements of disaster risk reduction/management.</p> <p>For specific funding needs of this DRR Roadmap which require funding from Multi-Lateral Donors such as the World Bank and ADB, following due process of approval specific projects will be developed and processed through established channel in due consultation with Gol. Specific proposals will be developed and channeled through the Planning Department to access funding with specific Gol agencies such as MoDONER and NEC. Existing established processes will be followed. The UN Agencies particularly UNICEF and UNDP will be part of the technical support team and shall be included as technical partners to support implementation of specific interventions by respective departments with whom they have an agreed work-plan.</p> <p>Besides the above arrangement, other potential donors and partners will be identified based on requirement to raise funding for implementation of the DRR Roadmap following due procedure. In order to facilitate the above, a DRR Roadmap Implementation Support Unit will be established at the ASDMA.</p>
Window 6	Mobilizing investment from Private Sector including use of the CSR grants as applicable
Description	<p>Even though private sector plays an important role in response and recovery related actions in the context of flood in the state. However, the potential role of private sector for disaster risk reduction has largely remained underexplored. Schedule VII of the Companies (Corporate Social Responsibility Policy) Rules 2014 relating to corporate social responsibility states that companies may provide funds for the Prime Minister's Relief Fund or "any other fund set up by the Union Government or the State Governments for socio-economic development and relief".</p> <p>The DRR Roadmap implementation will include mapping and tapping of such private sector players both within and outside the state to support and supplement implementation of strategic interventions. The DRR Roadmap Implementation Support Unit will act as a facilitation centre linking appropriate partners/stakeholders in this regard</p>
Window 7	Insurance and Risk Pooling
Description	<p>As a part of strategy to manage 'residual risk' and based on development at the national level towards development risk insurance packages for different category of demands/needs, the interventions beyond the scope of windows defined above will be mapped for insurance and risk pooling. As recommended in the 15th FC report and depending upon further developments at Gol level specific interventions will be linked.</p>
Window 8	Crowd Funding and others
Description	<p>This is an emerging and very potent area of funding not only response and recovery but resilience building interventions. In coordination with Government of India, efforts will be made to establish a standard crowd-funding platform for raising funds through the Roadmap Implementation Support Unit. However, as outlined in the 15th FC report, Government of Assam may consider outsourcing expertise towards Identifying the right time for crowd funding, setting up secure payment gateways and ensuring accountability and transparency with due guidelines developed in coordination with Gol.</p>

3.7.1 Department of Finance

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 1: Understanding Disaster Risk	1. Make disaster and climate risk and impact assessment mandatory as a part of the process towards development and approval of any state level government scheme/programs by departments of Government of Assam (through an official notification).	State	Short Term (2024)	NA	In consultation with ASDMA, T&D and ACCMS	SDGs, Paris Agreement, PMTPA-4
	2. Develop finance and accounting guidelines for budgeting and integration of risk and impact assessment in the process of scheme/program development and implementation by departments of Government of Assam.	State	Medium Term (2026)	NA	In consultation with ASDMA, T&D and ACCMS and relevant Departments	SDGs, Paris Agreement, PMTPA-4, PMTPA-5
	3. Develop/modify financial monitoring systems (<i>IT-based grading systems</i>) to track and ensure compliance of guidelines on risk and impact analysis integration in the process of scheme/program development and implementation by departments of Government of Assam.	State	Medium Term (2026)	SDRF (Capacity Building Grant) & Regular Resources of Finance Department		
	4. Develop a system and conduct financial loss and damage assessment on yearly basis to understand impact on fiscal position of the state and provide financial projections to specific stakeholders for necessary actions to prevent, mitigate, prepare for and responding to reduce the potential financial impacts.	State	Long Term (2030)			
Priority 2: Strengthening Disaster Risk Governance	5. Develop detailed guidelines for use of Flexi Funds under Centrally Sponsored Schemes for Assam in accordance with the national guidelines and aligning to the DRR Roadmap.	State	Short Term (2024)	NA		
	6. Develop detailed guidelines and SoPs for State Level Schemes and Programs creating/strengthening provisions for flexi funds to meet financial requirements for implementing relevant DRR Roadmap interventions by departments/agencies of state government.				PMTPA-1	

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
	7. Develop framework, guidelines and build capacity of departments/agencies of Government of Assam to develop risk informed budgets and annual plans. Particularly focusing on integration of adaptive interventions based on risk analysis done by departments/agencies.	State and District	Medium Term (2026)	SDRF (Capacity Building Grant) & Regular Resources of Finance Department	In consultation with ASDMA, T&D and ACCMS	PMPA-1
	8. Develop detailed financial and accounting procedure for accessing the various financial windows as stated in this chapter.	State	Short Term (2024)	NA	In consultation with Revenue & DM, T&D and ACCMS and relevant Departments	
Priority 3: Investing in DRR for Resilience	9. Develop a financial incentivization scheme (e.g., allocation of additional funds based on grading system ²²⁸) to encourage departments/agencies to scale risk informed planning/budgeting and implementation.	State	Medium Term (2026)	Regular Resources of Finance Department	In consultation with Revenue & DM, T&D and ACCMS	
	10. Study feasibility of risk pooling and transfer instruments including disaster insurance in line with the recommendation of the 15 th Finance Commission including aspects of financing the Roadmap.	State	Medium Term (2026)	SDRF (Capacity Building Grant) & Regular Resources of Finance Department	In consultation with MoF, GoI, NDMA/ASDMA and other relevant departments	PMPA-2
	11. Support and facilitate operationalization of funding windows related to crowdfunding, externally aided projects and others required for meeting financing gaps for the DRR Roadmap interventions.	State	Medium Term (2026)	Regular Resources of Finance Department	DRR Roadmap implementation Support Unit and relevant departments	

228. Refer to Action Point No.3

SFDRR Priority	DRR Action	Level of Action	Timeline	Available Resources	Any Additional Resources Required	Linkage with Other Frameworks
Priority 4: Enhancing disaster preparedness for effective response & Build Back Better	12. Conduct annual financial preparedness assessment with relevant stakeholders before anticipated seasonal hazards particularly floods and erosion which require recurrent response and financial resources.	State and District	Recurrent	NA	All relevant stakeholders	PMTPA-4
	13. Review at regular intervals financial and accounting related issues and challenges with Departments and districts ensuring corrective actions timely availability and use of financial resources for prevention, mitigation, preparedness, response, recovery, and reconstruction.	State and District	Annual	NA	ASDMA, Departments of Government of Assam and District DM Authorities	
	14. Develop and use real time financial monitoring tools for reviewing recovery/reconstruction interventions implemented by departments/agencies/districts affected by disasters to ensure integration of 'Building Back Better'.	State, District and Local Levels	Short Term (2024)	Regular Resources of Finance Department	ASDMA, Departments of Government of Assam and District DM Authorities	PMTPA-5
	15. Enable and facilitate rapid mobilization of funds to meet any financial gap in response and recovery through multi-window process (combination of funding windows outlined above).	State	As per need	SDRF (response and Recovery)	ASDMA and DDMA's	

4. Implementing the Assam DRR Roadmap

4.1 Institutional Mechanism

The Disaster Risk Reduction Roadmap for Assam is envisaged as the guiding policy framework to guide the state's ambition of becoming disaster resilient in a changing climate by preventing new risks, reducing existing risks and managing residual risks. The implementation of the DRR Roadmap strategic interventions is the responsibility of the stakeholders as mapped in the document. To support these stakeholders in implementation of the DRR Roadmap, existing and proposed institutional mechanisms and their responsibilities are mentioned below:

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
1	Governing Body, Assam State Disaster Management Authority	Existing	The Governing Body of ASDMA constituted under section 14 (2) of the National Disaster Management Act ²²⁹ is chaired by the Chief Minister of Assam with Minister Revenue and Disaster Management as Vice-Chair, 5 other official members, 3 non-official members and 8 permanent invitees.	<ol style="list-style-type: none"> 1. Guide the process for Cabinet Approval and implementation of DRR Roadmap. 2. Review progress of the implementation of Roadmap through bi-annual meetings against agreed Common Measurable Indicators (CMI) and Milestones. 3. Provide strategic directives enabling the Roadmap to achieve its intended results. 4. Guide optimum utilization of defined funding windows for ensuring fund availability for implementation of DRR Roadmap. 5. Take Suo-Moto cognizance and issue directives in matters affecting implementation of Roadmap.

229. Revised Notification of the Governing Body of ASDMA dated 22nd September, 2015 http://asdma.gov.in/pdf/notification/Re-Notification_SDMA.pdf

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
2	State Executive Committee, Assam State Disaster Management Authority (proposed as DRR Roadmap Advisory Committee)	Existing	<p>The State Executive Committee of ASDMA is constituted as per Section 20(1) of the National Disaster Management Act, 2005. It has Chief Secretary, GoA as the Chair and senior most Secretary of Revenue and DM Departments as Vice-Chair. Besides, there are 4 other members and 11 invitees consisting of senior secretaries from departments of Government of Assam²³⁰</p> <p>State Executive Committee of ASDMA is entrusted with the additional responsibility to act as the DRR Roadmap Advisory Committee to perform the listed functions</p>	<ol style="list-style-type: none"> 1. Issue notifications, advisories, orders etc. as relevant for implementation of the DRR Roadmap. 2. Provide guidance on stakeholder mobilization and engagement for implementation of DRR Roadmap. 3. Finalize Reporting, Monitoring and Evaluation framework and mechanism for the Roadmap. 4. Advise on resource planning, allocation, and mobilization for the implementation of the DRR Roadmap. 5. Review and ensure alignment of the State Disaster Management Plan with the DRR Roadmap. 6. Guide development of ToRs, obtaining necessary approvals and notification of State DRR Platform and DRR Roadmap Implementation Support Unit (ISU). 7. Approve and allocate necessary resources for implementation of the DRR Roadmap as per proposed funding windows and in accordance with existing guidelines and procedures. 8. Review progress of implementation on regular basis (preferably once a quarter), provide directives and guidance to mitigate and settle challenges and roadblocks. 9. Explore and guide process related to optimization of funding windows, issues related to convergence and mainstreaming, coordination gaps and opening of stakeholder base.

230. Revised notification of the State Executive Committee http://asdma.gov.in/pdf/notification/Re-Notification_SEC.pdf

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
3	R&DM Department and ASDMA Secretariat	Existing	Existing Revenue and Disaster Management structure of Government of Assam and the Secretariat with professional expertise on different aspects of disaster risk reduction.	<ol style="list-style-type: none"> 1. Convene and coordinate the functions of DRR Roadmap Secretariat. 2. Provide leadership in matters related to development, finalization, approval, and implementation of the DRR Roadmap. 3. Provide necessary budget support for administrative and technical operation of DRR Roadmap Implementation Unit and in implementation of DRR Roadmap. 4. Host, facilitate, coordinate, and supervise functions of the DRR Roadmap Implementation Support Unit. 5. Design and build capacity of stakeholders in implementation of DRR Roadmap. 6. Provide strategic direction, technical guidance, and oversight towards implementation of the Roadmap. 7. Host and coordinate functions of State Platform for DRR. 8. Anchor reporting and M&E aspects of the DRR Roadmap including management of databases on disaster losses and damages and trends as per need. 9. Provide linkages and guidance to different stakeholders on accessing DRR Roadmap Financing windows. 10. Ensure integration of DRR Roadmap interventions in State and District Level Disaster Management Plans as well as review such integration in departmental/sectoral DM Plans.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
4	Departmental Apex Committees/ Statutory Bodies	Existing	The existing notified Apex bodies of various departments and agencies of Government of Assam responsible for according approval to plans and budgets, reviewing progress and M&E.	<ol style="list-style-type: none"> 1. Take cognizance of the DRR Roadmap of respective departments/agencies. 2. Ensure integration of DRR Roadmap implementation as standing agenda for at least 2 meetings per year (pre & post-monsoon). 3. Review and accord approval to departmental proposals related to DRR Roadmap implementation. 4. Establish a checklist for reviewing departmental annual plan and budget as well as progress review viz-a-viz DRR Roadmap allocation and implementation. 5. Ensure, through checks and balances, integration of disaster and climate risk analysis and program adaptive actions as part of all plans and programs developed by departments/agencies to reduce losses, disruptions to the program and other impacts. 6. Guide, facilitate and enable access to appropriate funding window by the department in case of interventions which are beyond departmental budget provisions. 7. Ensure reporting of progress on DRR Roadmap in common reporting portal. 8. Ensure that the Departmental Disaster Management Plans are aligned towards addressing the DRR Roadmap priorities of the Department.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
5	State Platform for DRR (supported by a Technology enabled platform)	Proposed	In line with the National Platform for Disaster Risk Reduction ²³¹ , Assam State Platform for DRR is being proposed to be constituted with Minister, Revenue and DM and Vice Chairperson, ASDMA as chairperson, Ministers of key departments, 3-4 selected MLAs, 3-4 Chairperson of Municipal Corporations, 7-8 Chairperson of Zila Parishad, Representatives from UNICEF, and other UN Agencies, Private Sector (FICCI & CII), Civil Society Organizations (IAG and other networks), Youth and Student Associations, Trade Unions, Academic Institutions, groups, Women Federations and Self Help G, Farmer's Associations, Banks and other Financial Institutions and selected Children/Adolescents as Members. ASDMA will be the host of the platform and its ToR to be developed as per advice of the DRR Roadmap Advisory Committee	<ol style="list-style-type: none"> 1. Review the progress made in the implementation of DRR Roadmap in Assam across identified pillars. 2. Identify and address inter-stakeholder challenges and issues affecting effective implementation of DRR Roadmap. 3. Identify legislative and policy support which needs to speed up implementation. 4. Identify and invite stakeholders to broaden the scope and horizon of DRR Roadmap for effective implementation and mapping. 5. Monitor performance of key stakeholders implementing DRR Roadmap and provide strategic directives towards performance improvement. 6. Identify areas of concern regarding existing and emerging risks and advise updation /upgradation of the Roadmap to address areas of gap. 7. Serve as catalysts for state consultations and consensus building, implementation and monitoring of DRR roadmap activities. 8. Facilitate and encourage documentation of learning from implementation of DRR Roadmap. 9. Serve as a platform for multi-stakeholder sharing of experiences, learning and suggestions and for constant dialogue to adapt programs to address dynamic risks. 10. Enhance the resource window for financing DRR Roadmap interventions by facilitating sharing of responsibilities in case of areas of concerns.

231. National Platform for DRR https://ndma.gov.in/Capacity_Building/Policy_Plan/National-Platform-Disaster-Risk-Reduction#:~:text=The%20Government%20of%20India%20recognizes,the%20field%20of%20disaster%20management

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
7	DRR Roadmap Implementation-cum-Technical Support Unit	Proposed	The DRR Roadmap Implementation –cum- Technical Support Unit is proposed to be as the Secretariat for carrying out routine coordination, capacity building, facilitation, reporting and M&E functions related to DRR Roadmap. To be housed in ASDMA, the DRR Roadmap Implementation-cum-Technical Support Unit will be headed by CEO, ASDMA or an officer not below the rank of secretary to the government of Assam deputed for the unit. The DRR Roadmap Implementation-cum-Technical Support Unit will have experts nominated from different stakeholder groups as well as 1 thematic consultant against each pillar of the Roadmap to be recruited on contractual basis. The detailed ToR will be developed by the State Advisory Committee on DRR Roadmap.	<ol style="list-style-type: none"> 1. Carry out day to day business supporting the implementation of DRR Roadmap. 2. Create and maintain Databases of disaster induced losses and damages including updation of baseline (as per need and availability of data). 3. Develop notifications, advisories, and other documents relevant to the implementation of the DRR Roadmap as per guidance of the Advisory Committee. 4. Develop position papers, briefing papers, thematic review papers, summary reports, detailed progress reports on bi-annual basis or as per need under the guidance of the Advisory Committee. 5. Support preparation for, coordination, organization, and documentation of stakeholders' meetings as per need on different aspects of DRR Roadmap implementation. 6. Conduct follow-ups and facilitate reporting by identified stakeholders on the progress of DRR Roadmap on a bi-annual basis. 7. Design and conduct capacity-building programs related to design of concept notes, proposals, and budgets towards accessing different financial windows for DRR Roadmap interventions. 8. Support designing of flagship programs/schemes with stakeholder departments across various priorities of DRR Roadmap. 9. Develop case studies, document success stories as well as stories of unsuccessful interventions. 10. Support Secretarial functions towards organizing conventions of the state platform for DRR. 11. Assist stakeholders in developing proposals to access financial resources applying for various funding windows in accordance with need, scope, and adherence to guidelines applicable to specific funding window. 12. Execute overall M&E functions as outlined in the DRR Roadmap document. 13. Any other task referred to by the Advisory Committee.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
8	State Institute of Disaster Management	Existing (Approved but yet to be established)	As per existing approved proposal related to setting up of State	<ol style="list-style-type: none"> 1. Develop/update training needs analysis on DRR and CCA to address capacity needs for implementation of DRR Roadmap. 2. Coordinate and facilitate different research related interventions against specific thematic pillars of DRR Roadmap in coordination with specific stakeholder/s. 3. Provide handholding and capacity building support to the DRR Roadmap Implementation Support Unit. 4. Design customized capacity building packages for stakeholders including those for training institutions for other departments. 5. Provide technical inputs from R&D perspective towards strengthening real-time monitoring, documentation and knowledge management related to DRR Roadmap.
9	Training/Research Institutions of various departments/Agencies including AASC, Agriculture training centres, SIPRD, ASSTC, SCERT, etc.	Existing	As per existing structures of departmental/sectoral training research institutions	<ol style="list-style-type: none"> 1. Support SIDM in specific training needs assessment related to the department/agency. 2. Execute capacity building packages in collaboration with ASDMA/SIDM/DRR Roadmap Implementation Support Unit. 3. Support/Lead research related to department/sector as proposed in this Roadmap.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
10	Technical Agencies including IMD, CWC, NESAC, NEIST-Jorhat, AS-TEC, Higher Education Institutions (DM) with expertise on DRR and Climate Change related subjects	Existing	As per existing notifications/structures and table of authority	<ol style="list-style-type: none"> 1. Guide and contribute towards development and upgradation on knowledge and skills specific to themes and sectors as outlined in the DRR Roadmap. 2. Be part of technical advisory groups of specific stakeholder groups and contribute towards design of methodology, tools and in quality assurance of research and development related to understanding of disaster risks. 3. Develop and make public- documents / reports related to findings, analysis, projections etc. on risks and risk reduction for stakeholders to consider as they design and execute the DRR Roadmap related interventions. 4. Undertake/support undertaking relevant R&D activities from multi-disciplinary perspectives. 5. Contribute towards establishing state level forum of technical agencies on DRR and climate change. 6. Generate evidence and provide evidence-based analysis through academic papers on areas of concern towards achieving DRR Roadmap related targets. 7. Mobilize and channelize academic contributions to reinforce knowledge and capacities for implementation of DRR Roadmap.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
11	Central and State Disaster Response Agencies including NDRF, SDRF, Fire and Emergency Services, Army and Paramilitary Forces, Civil Defence, Indian Red Cross Society ,	Existing	As per existing structures (Wings/ Sections responsible for Disaster Management Functions)	<ol style="list-style-type: none"> 1. Upgrade capacities to deliver optimum response in need. 2. Maintain and share (as permissible) pre-positioning of human resource and equipment at strategic locations. 3. Provide inputs towards augmenting state capacities for enhancing quality and effectiveness of disaster response. 4. Coordinate with responsible stakeholders (departments/agencies) and support in augmenting their response capacities. 5. Support DDMA's in conducting scenario-based preparedness exercise with different stakeholder groups.
12	District Disaster Management Authorities	Existing	The District Disaster Management Authorities are constituted in all districts of Assam as per Section 25 of the National Disaster Management Act having Deputy Commissioner as Chairperson, CEO, Zila Parishad as the Vice-Chairperson; Senior Officials from various departments as members and ADC (Revenue) as the CEO.	<ol style="list-style-type: none"> 1. Develop understanding on the overall DRR Roadmap. 2. Ensure alignment of District Disaster Management Plans with the overall DRR Roadmap for the state. 3. Conduct periodical reviews with relevant district level stakeholders to measure progress of DRR Roadmap implementation at district level. 4. Oversee implementation of flagship programs/schemes designed under DRR Roadmap. 5. Constantly engage with stakeholders for expediting implementation of various levels of activities. 6. Provide inputs/feedback to the DRR Roadmap Advisory Committee on matters related to DRR Roadmap implementation. 7. Issue necessary directives, notifications, advisories etc. based on guidance/communications received from State. 8. Ensure timely reporting by stakeholders from the district on progress as per established channels and tools.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
13	District level committees/ Statutory Bodies of Line Departments	Existing	Notified and existing committees and statutory bodies including District Development Committee, Zila Parishad, departmental review committees etc.	<ol style="list-style-type: none"> 1. Make DRR a standing agenda of all review meetings to review and analyse how disaster risks will impact/will be impacted by the intervention concern. 2. Seek disaster risk analysis report for new proposals. 3. Discuss and review DRR Roadmap priorities and their implication for the functioning of the sector/department at district level. 4. Review departmental plans/proposals at district level for their sustainability against district specific risks. 5. Ensure integration of disaster risk reduction/climate change adaptation actions in departmental proposals/plans/budgets to reduce impact/losses to the program for sustainability. 6. Encourage local analysis/research to identify risk reduction/adaptation solutions for specific type of departmental schemes/projects/proposals and Programme Implementation Plans (PIPs) integrated as regular activities (not separately as disaster management or climate change related). 7. Review progress of relevant DRR Roadmap actions by specific departments. 8. Ensure that timely reporting is made on the DRR Roadmap progress as established channel.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
14	Sub-Divisional/ Circle Disaster Management Committees	Existing	While the Sub-Divisional Officer leads coordination of preparedness and response at Sub-Divisional Level, Circle Disaster Management Committees have been constituted ²³² to strengthen community-based preparedness and capacities for disaster management having Circle Officer as the Chairperson and other representatives of various departments as members	<ol style="list-style-type: none"> 1. Discuss and build understanding on the DRR Roadmap and its implication for the Sub-Division/Revenue Circle. 2. Develop/interpret milestones and indicators for locally reviewing progress of DRR Roadmap implementation at Sub-division / Revenue Circle level. 3. Collectively monitor specific interventions which are critical for building resilience at the Sub-Division/Revenue Circle level. 4. Emphasize upon and handhold stakeholders to create good and replicable models on locally contextual DRR interventions. 5. Resolve operational challenges in coordinated actions and ensure role sharing as envisaged in the DRR Roadmap document. 6. Provide inputs to the DDMA and if needed to the DRR Roadmap Implementation Unit / Roadmap Advisory Committee on areas of concern/improvement. 7. Address issues of integrating DRR Roadmap interventions within plans/budgets/proposals developed at Sub-Division/Revenue Circle Level by respective stakeholders. 8. Facilitate and ensure adequate and timely reporting of data on losses and impacts as well as on milestones and indicators (as relevant) related to the DRR Roadmap.

232. Notification of Circle Disaster Management Committee http://asdma.gov.in/download/Office_Memo_CDMC.pdf

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
15	Urban Local Bodies/ Gram Panchayats /Village Land Management and Conservation Committees	Existing	Existing structure defined including the elected member and the appointed officials with Urban Local Bodies and Gram Panchayats. Village Land Management and Conservation Committees were notified ²³³ in Assam as part of citizen engagement initiative for issues related land management and disaster management	<ol style="list-style-type: none"> 1. Discuss and build understanding on the DRR Roadmap and its implication for the city/town/Gram Panchayat/Revenue Village. 2. Ensure conduct of local risk assessment and development of DRR/ DM Master plan at City/Town/ Gram Panchayat/Revenue Village Level. 3. Delegate DRR responsibilities to available human resources. 4. Develop milestones and targets based on the DRR Roadmap for respective Cities/Towns/Gram Panchayats/Revenue Villages and regularly review progress. 5. Ensure that master plans/development plans developed at Cities/Towns/Gram Panchayats/Revenue Villages integrate DRR Roadmap related interventions. 6. Push for, stimulate, encourage, and convene Cities/Towns/Gram Panchayats/Revenue Villages stakeholders for regular dialogue on preventing new risks and reducing existing risks. 7. Develop and implement a system to collect community feedback and engaging at risk communities in DRR interventions implemented at Cities/Towns/Gram Panchayats/ Revenue Villages level. 8. Provide feedback at appropriate levels on progress, issues and challenges related DRR Roadmap implementation by stakeholders.

233. Office Memorandum on Village Land Management and Conservation Committees http://sdmassam.nic.in/download/OFFICE_MEMORANDUM0001.pdf

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
16	United Nations Agencies, Bilateral and Multi-Lateral Organizations	Existing	UNICEF and other UN Agencies operational in the state with agreed workplans with appropriate departments of Government of Assam. Multi-Lateral and Bilateral Donors with Existing Special Purpose Vehicles/existing/perspective projects / programs/plans for the state of Assam	<ol style="list-style-type: none"> 1. Provide technical support in matters related to implementation of DRR Roadmap. 2. Support bringing multi-sectoral expertise in the DRR Roadmap Implementation Support Unit. 3. Provide funding support specific proposal developed by stakeholders, facilitated by DRR Roadmap Implementation Unit as per existing protocols. 4. Support design and execution of capacity development programs across thematic areas. 5. Support concerned departments/agencies/stakeholders in implementing specific interventions. 6. Undertake review and analysis of interventions under specific themes to suggest areas of improvement in real time. 7. Provide technical support in knowledge management and in documentation of experiences of implementing the DRR Roadmap.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
17	Civil Society Organizations/NGOs and platforms including Inter Agency Group	Existing	Existing Civil Societies Organizations, Non-Governmental Organizations working in the field of Disaster/Climate Change Risk Reduction and their platforms including Inter Agency Group Assam	<ol style="list-style-type: none"> 1. Contribute towards finalization of the DRR Roadmap documentation with specific inputs. 2. Closely coordinate with DRR Implementation Support Unit and other relevant stakeholders on matters related to DRR Roadmap implementation. 3. Coordinate and access opportunities with departments /agencies for implementing specific DRR Roadmap interventions. 4. Contribute technical and field level expertise and experiences at appropriate levels in matters related to DRR Roadmap. 5. Contribute in real time review and analysis of progress of DRR Roadmap. 6. Report on specific project/programs implemented on bi-annual basis which contribute. 7. Participate and contribute in the processes and actions related to State DRR Platform. 8. Develop and share case studies, success stories, good practices which contribute towards the DRR Roadmap priorities. 9. Support the DRR Roadmap by enlisting and submitting existing and proposed plans/projects that directly contribute to the DRR Roadmap Priorities.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
18	Private Sector and their Confederations like FICCI/CII etc.	Existing	Existing platforms of networks of Private sector firms/companies as per their existing structures	<ol style="list-style-type: none"> 1. Nominate Nodal/Focal Points for coordination in matters related to DRR Roadmap. 2. Understand and interpret DRR Roadmap and its implication for the Private Sector. 3. Provide inputs towards finalization of the DRR Roadmap with basic commitments on Private Sector Contribution for DRR Roadmap. 4. Channelize and mobilize private sector funding for implementing DRR Roadmap Priorities (CSR and beyond). 5. Participate in and contribute to the processes and interventions related to State Platform for DRR. 6. Establish clear checklist detailing basic compliances to ensure that private sector initiatives/investments do not aggravate risks and contribute towards prevention of new risks, reduction of existing risks and management of residual risks. 7. Bring existing private sector players together in favour of implementing/contributing to DRR Roadmap implementation. 8. Map and share existing/proposed projects/investments by companies which can impact/get impacted by disasters and the DRR Roadmap. 9. Provide a bi-annual report detailing contribution by Private Sector in implementation of the DRR Roadmap. 10. Share innovations, good practices and lessons learnt from private sector perspective.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
19	Youth led/based organizations including NSS, NCC, NYKS, Students Organizations and Movements and Community Based Organizations	Existing	NSS/NCC/NYKS Existing as per notified structures at state and district level. Students Organizations, Movements and Clubs and other such Youth Networks existing in the state	<ol style="list-style-type: none"> 1. Participate in and contribute to volunteering initiatives around DRR Roadmap interventions. 2. Contribute towards execution of community based DRR initiatives. 3. Support design and implementation of thematic and specific awareness generation drives on issues related to DRR Roadmap. 4. Develop/contribute towards development of skills around DRR such as survival, locally contextual livelihood recovery options, climate change adaptation and mitigation etc. 5. Contribute and support disaster risk assessment and planning at district, sub-division, revenue circle, City/Town/GP/Village levels. 6. Take leadership for mobilizing and supporting youth from vulnerable pockets. 7. Students Organizations should also track and maintain database at local levels on youth migrations of all types. 8. Create network between networks for effective coordination, networking, and common messaging on issues around disaster and climate risks.

No	Name of the institutional mechanism	Existing/ Proposed	Composition	Roles and responsibilities related to Assam DRR Roadmap
20	Trade Unions, Farmers Associations, Women Federations and Self-Help Groups and other livelihood-based organizations		As per their existing structures	<ol style="list-style-type: none"> 1. Participate and contribute towards implementation of DRR Roadmap priorities in respective domain/ sector. 2. Promote network of networks for implementing DRR Roadmap priorities particularly related to livelihood. 3. Participate at the State Platform for DRR and provide impetus for effective implementation of the DRR Roadmap. 4. Promote resilience in overall approach functioning with an aim to recovery faster and better from both anticipated and unanticipated risks at community level. 5. Develop database related to losses and impacts and initiatives taken and share with DRR Roadmap Implementation Units through established channels. 6. Learn and adapt appropriate disaster recovery options and promote shared resilience within and between associations and networks.

4.2 Implementation Modality

This Roadmap places emphasis on being ambitious and thus endorses a multi-vehicle implementation modality in a complex stakeholder engagement environment. The sectoral/departmental action plans as mapped in the **DRR Roadmap will be implemented through a mix of the following approaches:**

- **State level Missions** - Based on the themes proposed, state level missions will be developed in line with mission structures used for developing and implementing national missions. Missions will be developed in the case of a whole thematic pillar within one umbrella framework aligned with existing systems and allocations. Each mission will be implemented through an existing structure of schemes/SPVs with additional financial and human resource impetus. The DRR Roadmap Implementation Support Unit will take a lead in designing the Mission structures and respective departments/agencies will process the approval according to established protocols. Initially, it is proposed to develop the following state level missions:
 - **Livelihood resilience mission**
 - **Urban resilience mission**

Further, the DRR Roadmap Advisory Committee in consultation with the State Platform for DRR may propose undertaking missions around other thematic pillars as per scope, feasibility and need.

- **State Level Programs** - This approach will be adopted in case of thematic pillars, where one mission will not be adequate to address the thematic diversities of a particular thematic pillar. The Programs will be implemented by a specific department in collaboration with relevant stakeholders. Each Program will have specific milestones, indicators and targets and will leverage multiple funding windows to cover different aspects of the program implementation

cost. Initially, the following state level programs are being proposed:

- **Chief Minister's Comprehensive School Safety and Security Program**
- **Chief Minister's Health and Nutrition System Resilience Program**
- **Chief Minister's Resilient Gaon Panchayat Program**
- **Chief Minister's Multi-Hazard Preparedness Program** (This will include Emergency Preparedness Strengthening Program covering facilitation hassle-free access to cash assistance and other response support, community engagement and feedback for accountability)
- **Chief Minister's special protection program for population at risk**
- **Chief Minister's Multi-Purpose Emergency Shelter Strengthening Program**
- **Chief Minister's WASH resilience Program**

Further, the DRR Roadmap Advisory Committee in consultation with the State Platform for DRR may propose other programs based on need, progress of DRR Roadmap interventions, progress in accessing financial windows, etc.

- **Specific Projects (geographical and thematic)-** Besides the above two, special projects will be another implementation modality which will be demand driven based on the requirements from specific stakeholders as well as available and emerging financing opportunities such as those needed to access SDMF or externally aided funding opportunities. This modality will be the most used and available option facilitated by the Roadmap Implementation-cum-technical support Unit under the guidance of the advisory committee.

5. Measuring Results - Monitoring & Evaluation of the DRR Roadmap

The success of the DRR Roadmap lies in the way it contributes towards the goal and objectives for which it is being developed. This is a complex function particularly because of the multi-sectorality and interdependence of results. However, the DRR Roadmap envisages a simplified process for tracking progress towards intended results. The process will enable reporting and capturing information in one platform, multi-stage verification and quality control as per existing structures and cumulative analysis in real-time to understand progress and take action towards course correction/adaptation as needed. The Roadmap monitoring will include targets, milestones, and Common Measurable Indicators (CMI) drawn for each thematic pillar as established in the document. These are detailed in the following table:

5.1 Targets, Milestones and Common Measurable Indicators

SFDRR Target	Milestone	Common Measurable Indicators
1. Reducing Disaster Mortality	Baseline status of deaths due to disasters developed.	Year-wise Sex, Age, Disability Desegregated (SADD) data of last 10 years collected and analyzed by 2023.
	Timely access to humanitarian assistance during disasters.	At least 90% of the disaster affected people receive timely humanitarian assistance every year.
		Reduce at least 5% deaths due to disasters annually by 2026 and 10% deaths by 2030.
2. Reducing People Affected	Baseline status of people affected by to disasters developed.	Year-wise Sex, Age, Disability Desegregated (SADD) data of last 10 years collected and analysed by 2023.
	Improved access to risk transfer mechanisms among people.	At least 10% annual increase in percentage of health insurance coverage among people by 2030.
3. Reducing Economic Loss	Improved access to risk transfer mechanisms in agriculture sector.	At least 10% annual increase in percentage of insurance coverage among farmers by 2030.
	Improved access to risk transfer mechanisms in private sector.	At least 10% annual increase in percentage of insurance coverage among industries and businesses by 2030.
	Increase in use of sustainable sources of energy.	At least 10% annual increase in percentage of solar energy in households, businesses, and industries.

4. Reducing Infrastructure Damage	Structural safety audit of Government offices and social infrastructure (schools, Anganwadi Centres, Hospitals, Community Halls, etc.) initiated.	Number of offices and social infrastructure covered under the safety audit by 2026.
	Appropriate structural safety measures initiated for Government offices and social infrastructure.	Number of offices and social infrastructure covered under the corrective measures for structural safety by 2030.
	Structural safety audit of critical infrastructure (power plants, industries, embankments, etc.) and commercial buildings initiated.	Number of critical infrastructure and commercial buildings covered under the safety audit by 2026.
	Appropriate structural safety measures initiated for critical infrastructure and commercial buildings.	Number of critical infrastructure and commercial buildings covered under the corrective measures for structural safety by 2030.
5. Increase DRR Strategies	Risk informed programming by the Government and Private Sector.	Number of Departments integrating disaster risk reduction measures in their annual plan activities and budget from 2023 onwards.
		Number of Departments develop Departmental Disaster Management Plan, SOPs, and Contingency Plans in line with Assam DRR Roadmap from 2023 onwards.
		Number of Gaon Panchayat Development Plans integrating disaster risk reduction measures, including the needs of children, adolescents, women, elderly, and person with disabilities from 2023 onwards.
		Number of businesses/companies having Business Continuity Plans from 2023 onwards.

6. Increase Cooperation	Increased coordination and collaboration between Government and NGOs.	Number of joint initiatives taken by the Departments and NGOs integrating DRR from 2023 onwards.
	Increased coordination and collaboration between Government and Academic Institutions.	Number of joint initiatives taken by the Departments and Universities/ Technical Institutes integrating DRR from 2023 onwards.
	Increased coordination and collaboration between Government and Private Sector.	Number of joint initiatives taken by the Departments and Companies/ Entrepreneurs integrating DRR from 2023 onwards.
	Increased coordination and collaboration between Government and CSOs.	Number of joint initiatives taken by the Departments and CSOs (Youth Groups, Women SHGs, etc.) integrating DRR from 2023 onwards.
7. Increase Access to Early Warning Systems & Disaster Risk Information	Effective Multi-Hazard Early Warning Systems established.	Number of Early Warning System fully operational by 2026.
		Number of people in villages and urban areas having access to the EWS.
	Improved understanding and awareness of disaster risks.	Number of awareness campaigns completed by 2026.
		Percentage of rural and urban population practicing the "Do's & Don'ts" before, during and after disasters by 2026.
		Number of sector specific studies/research/surveys done by Government Departments contributing towards risk informed programming by 2026.

5.2 Online Reporting Process, Platform and Tools

Sticking to the idea of providing a single window simplified process of reporting, the DRR Roadmap Implementation Unit will work towards designing and developing an IT-based online platform enabling access to all concerned stakeholders for reporting progress on DRR Roadmap implementation. This will be hosted at ASDMA and managed by the DRR Roadmap Implementation Support Unit. The reporting will have the following components:

- **Reporting against targets, milestones, and Common Measurable Indicators (CMIs)** - As the DRR Roadmap has defined targets, milestones and common measurable indicators, the reporting platform will have a component where responsible stakeholders will be reporting against these. The reporting will be mostly quantitative with certain qualitative elements (as applicable) and will relate to 'contributions' or 'attributions' by the stakeholders leading towards achieving the targets, milestones, and indicators. The submission will be visualized through a dashboard

which will portray progress with infographics It is proposed that the reporting against this will be kept on a yearly basis for enabling stakeholders to come up with substantial submission that can resemble progress towards actual intended results. Based on annual submissions, the **Annual DRR Roadmap Status Report** will be produced by the DRR Roadmap Implementation Support Unit. This report will also form the basis of annual reviews by different responsible institutions and committees as outlined in the previous chapter. This will also be the main reference for strategic discussion and decision during the annual conventions of the State DRR Platform.

- **Reporting progress against planned interventions** - This is proposed to be the regular way of reporting for the DRR Roadmap where stakeholders will be updating on progress against planned interventions. There will be two options for this form reporting. Firstly, there will be a mandatory bi-annual reporting by all stakeholders and secondly there will be 'need based and optional' reporting where stakeholders

based on progress achieved with any significant development related to the planned intervention can voluntarily opt to report. Besides, there will also be need based reporting requirements which will be workflowed to a particular department/ agency by the DRR Roadmap Implementation Support Unit to meet any urgent donor ask, compliance requirements or requirements from the State Government or Government of India depending upon the funding window accessed for implementing the intervention.

The DRR Roadmap Advisory Committee may propose, based on need and in consultation with responsible stakeholders, changes in the reporting mechanism as stated above. However, before recommending such changes, a rationale, and a majority (*1/3rd of the reporting stakeholders registered for reporting*) will be required so as to ensure endorsement of those who will be responsible for reporting.

5.2.1 Disaster Risk Reduction Technology Platform

The implementation of the DRR Roadmap shall be monitored through a very robust reporting system which will enable access to all concerned stakeholders in the form of a technology platform. The reporting will have both quantitative and qualitative elements designed to track the progress made in accomplishing the DRR Roadmap targets, milestones and indicators. On the basis of the submission made by all concerned stakeholders an Annual DRR Roadmap status report will be produced by the DRR Roadmap Implementation Unit and approved by the State platform for DRR. Apart from being a digital monitoring system on the implementation of the roadmap, the technology platform will also provide the opportunity for learning on disasters, networking and managing & disseminating important information. Using this platform, holistic and effective stakeholder engagement can be ensured which is of paramount importance on the path of achieving shared resilience.

Features of the Technology Platform

The Technology Platform shall contain the following features:

- **Implementation Dashboard:** The Technology Platform will contain a Dashboard on major DRR actions and highlights of the milestones achieved under each phase of the disaster governance cycle (Preparedness, Response, Rehabilitation, Recovery etc) under each thematic pillar (as envisaged in the DRR Roadmap). It will help identify the performance of each department against different set of indicators. The success

on each measurable indicator will be displayed thematic wise using different graphical visualizations.

- **Performance Dashboard:** A Window which shows the performance of the various districts, revenue circle and departments on critical disaster vulnerability parameters defining the nature of the success of the DRR Roadmap implementation. It will also identify the parameters which require attention and intervention.
- **Learning Dashboard:** A Window which will provide opportunities of learning for policy makers, DRR professionals, scholars, students and civil society members. The DRR Roadmap Implementation Unit headed by the Chief Executive Officer-ASDMA may design the learning strategy with the involvement of global universities
- **Networking Platform:** A Digital Networking system of stakeholders within the state who can consult on DRR Roadmap implementation on a regular basis.
- **Early Warning and Reporting Integration:** The Technology Platform will also integrate ASDMA's early warning information dissemination, Flood Reporting and Information Management System.
- **Citizen Centric Services Dashboard:** There may also be provisions of citizen centric services within the technology platform so that policy makers can understand real time problems by involving the community in decision making.

5.3 Evaluation of the Roadmap

The Assam DRR Roadmap 2030 will be evaluated twice during the entire implementation period; once as a mid-term review in the year 2027 and the other in the year 2031. The evaluation has to be carried out by a competent technical agency who will assess the success of the roadmap and provide programmatic and operational solutions to ASDMA. The process and methodology of evaluation will be decided with the active involvement of the DRR Roadmap Implementation Unit and thematic leads from Assam State Disaster Management Authority. The observations and findings from the midterm evaluation report will be used to upgrade implementation strategies and action plan thereby defining the pathways for the future course of action within the scope of the roadmap. The end term evaluation report will be used by ASDMA to design a future policy document which will act as a successor of the present roadmap with newer & refined perspectives. ASDMA under the guidance of SEC will prepare a detailed midterm and end term evaluation strategies with the involvement of the DRR Roadmap implementation-cum-technical support unit and stakeholders from different sectors.

5.4 Quality Assurance Checklist

In order to ensure quality in the processes related to development of plans and proposals and later in the reports submitted by stakeholders, the following checklist will be used to ensure quality by grading plans/proposals/reports related to the implementation of the DRR Roadmap. The checklist has been designed as universally applicable to all themes and stakeholders:

No.	Quality Checklist	Status (Yes/No)
1	Is the plan/proposal/report clearly mapped to the target, milestones and common measurable indicators and represent the broad strategic intervention/s planned in the document?	
2	Is the plan/proposal/report elaborate and considers risk analysis in the given context particularly how the program will impact and will be impacted by existing and emerging risks?	
3	Are both formal-governance (Government established and social-governance (existing informally with communities/societies) to plan, learn, act and track results are used for developing plan/proposal/report?	
4	Is information on risk and vulnerability inclusive of inputs from various at-risk population groups particularly women, children, persons with special ability, etc.?	
5	Are Young People and Youth involved in the process of preparation/proposed implementation strategy and progress reports?	
6	Is component on engaging with and involving academia/ private sector/ local collectives, civil society organizations, livelihood collectives and other stakeholders reflected in the implementation framework clearly elaborated in plan/proposal/report?	
7	Are plan/proposal/report listing the co-benefits of action in terms of climate mitigation/adaptation, environmental sustainability, and disaster risk reduction?	
8	Are accountabilities for each stage of planning, monitoring and evaluation defined/reported in the plan/proposal/report?	
9	As applicable, are interventions indicate duration (such as life certificate, duration of continuity)?	
11	Is there a reference/use of future technologies (including to be used for achieving the thematic goal within the plan/proposal/report?	
12	Are interventions/activities differentiated enough to address gender, age, caste, ethnicity and other drivers of vulnerability and exposure to hazards in the plan/proposal/report?	
13	Are interventions/activities ensuring net zero impact on ecosystem services, zero waste discharge and other greening and environmental sustainability aspects?	
14	Is the plan/proposal/report articulates value for money and carefully considers other cost effective means?	
15	Is plan/proposal/report clearly mentions how community feedback will be collected on its implementation and results and how feedback loop will be closed?	

Abbreviations

AASC	Assam Administrative Staff College
ABC	Aerial Bunched Cable
ACCMS	Assam Climate Change Management Society
ADC	Additional Deputy Commissioner
AEI	Assam Engineering Institute
AES	Acute Encephalitis Syndrome
AH&V	Animal Husbandry and Veterinary
AHSEC	Assam Higher Secondary Education Council
AIRTSC	Assam Institute of Research for Tribals and Scheduled Castes
AMCDRR	Asian Ministerial Conference on Disaster Risk Reduction
AMDP	Assam Municipal Development Project
AMRUT	Atal Mission for Rejuvenation and Urban Transformation
AMTRON	Assam Electronics Development Corporation Limited
APART	Assam Agribusiness and Rural Transformation Project
ARI	Acute Respiratory Infection
ASACS	Assam State AIDS Control Society
ASDM	Assam Skill Development Mission
ASDMA	Assam State Disaster Management Authority
ASRLM	Assam State Rural Livelihoods Mission
ASSOCHAM	Associated Chambers of Commerce of India
ASSTC	Assam Survey and Settlement Training Centre
ASTEC	Assam Science Technology and Environment Council
ASWC	Assam State Warehousing Corporation
AWCs	Anganwadi Centres
BADP	Border Area Development Programme
BDA	Border Development Activities
BO	Border Outpost
BOP	Border Outreach Programme
CAMPA	Compensatory Afforestation Fund Management and Planning Authority
CBO	Community-Based Organisations
CCA	Climate Change Adaptation
CCIs	Child Care Institutions
CDMC	Circle Disaster Management Committee
CII	Confederation of Indian Industry
CIT	Central Institute of Technology
CMIs	Common Measurable Indicators
COVID-19	Corona Virus Disease 2019
CSCs	Common Service Centres

CSIR–NEIST	Council of Scientific and Industrial Research - North East Institute of Science and Technology
CSOs	Civil Society Organizations
CSR	Corporate Social Responsibility
CSSs	Centrally Sponsored Schemes
CWC	Central Water Commission
CWC	Child Welfare Commission
DC	Deputy Commissioner
DCPU	District Child Protection Unit
DDMA	District Disaster Management Authority
DDMP	District Disaster Management Plan
DGCA	Directorate General of Civil Aviation
DICCs	District Industries and Commerce Centres
DM	Disaster Management
DRR	Disaster Risk Reduction
EPOS	Electronic Point of Sale
ESF	Emergency Support Function
EVDH	Establishment of Veterinary Dispensary & Hospital
EWS	Early Warning System
FC	Finance Commission
FCI	Food Corporation of India
FCS&CA	Food, Civil Supplies and Consumer Affairs
FICCI	Federation of Indian Chambers of Commerce and Industry
FLS	Fixed Loudspeaker System
FPS	Fair Price Shop
FREMAA	Flood and River Erosion Management Agency of Assam
GDD	Guwahati Development Department
GIS	Geographic Information System
GJB	Guwahati Jal Board
GMC	Guwahati Municipal Corporation
GMDA	Guwahati Metropolitan Development Authority
GMDWSB	Guwahati Metropolitan Drinking Water and Sewerage Board
GoI	Government of India
GP	Gram Panchayat
GPDP	Gaon Panchayat Development Plan
GPS	Global Positioning System
GPSS	Gram Panchayat Samabay Samiti
GSDP	Gross State Domestic Product
HFSS	High Fat, Sugar and Salt
HRVCA	Hazard, Risk, Vulnerability, and Capacity Assessment
IAG	Inter-Agency Group
ICAR	Indian Council of Agricultural Research
ICDS	Integrated Child Development Services

ICPS	Integrated Child Protection Scheme
IEC	Information Education and Communication
IIT-G	Indian Institutes of Technology - Guwahati
IMD	India Meteorological Department
IMS Act	Infant Milk Substitutes Act
IRS	Incident Response System
ISU	Implementation Support Unit
IT	Information Technology
ITI	Industrial Training Institutes
JE	Japanese Encephalitis
JEs	Junior Engineers
LED	Light-Emitting Diode
M&E	Monitoring and Evaluation
MGNREGA	Mahatma Gandhi Employment Guarantee Act 2005
MHA	Ministry of Home Affairs
MIS	Management Information System
MIYCN	Maternal Nutrition and Infant and Young Child Nutrition
MLA	Member of Legislative Assembly
MoDoNER	Ministry of Development of North East Region
MoF	Ministry of Finance
MOVCD	Mission Organic Value Chain Development in Assam
NABARD	National Bank for Agriculture and Rural Development
NAPCC	National Action Plan for Climate Change
NCC	National Cadet Corps
NCD	Non-Communicable Disease
NDCs	Nationally Determined Contributions
NDMA	National Disaster Management Authority
NDMF	National Disaster Mitigation Fund
NDMP	National Disaster Management Plan
NDRF	National Disaster Response Force
NDRMF	National Disaster Risk Management Fund
NEC	North Eastern Council
NESAC	North-Eastern Space Applications Centre
NFS Act	National Food Security
NFSM	National Food Security Mission
NGOs	Non-Governmental Organisations
NGT	National Green Tribunal
NHM	National Health Mission
NIC	National Informatics Centre
NIDM	National Institute for Disaster Management
NIT	National Institute of Technology
NITI	National Institution for Transforming India

NLEP	National Leprosy Eradication Programme
NMSA	National Mission for Sustainable Agriculture
NPCCHH	National Programme on Climate Change & Human Health
NSAP	National Social Assistance Programme
NSS	National Service Scheme
NSSP	National School Safety Policy 2016
NTEP	National Tuberculosis Elimination Program
NYKS	Nehru Yuva Kendra Sangathan
OTP	One Time Password
P&RD	Panchayat and Rural Development
PCB	Pollution Control Board
PDNA	Post-Disaster Needs Assessment
PHED	Public Health Engineering Department
PIPs	Programme Implementation Plans
PLCPC	Panchayat-Level Child Protection Committee
PMAY-G	Pradhan Mantri Awaas Yojana - Gramin
PMFBY	Pradhan Mantri Fasal Bima Yojana
PMKSY	Prime Minister Krishi Sinchayee Yojana
PMTPA	Prime Minister's Ten Point Agenda on DRR
PPE	Personal Protective Equipment
PPP	Public-Private Partnership
PRI	Panchayati Raj Institution
PSUs	Public Sector Undertakings
PWD	Public Works Department
PWSS	Piped Water Supply Scheme
R&D	Research and Development
RC	Revenue Circle
RCH	Reproductive and Child Health
RCS	Registrar of Cooperative Societies
RIDF	Rural Infrastructure Development Fund
RKVY	Rashtriya Krishi Vikash Yojana
RUSA	Rashtriya Uchchattar Shiksha Abhiyan
SADD	Sex, Age, Disability Desegregated Data
SBCC	Social and Behaviour Change Communication
SCA	Special Central Assistance
SCERT	State Council of Educational Research and Training
SDGs	Sustainable Development Goals
SDMF	State Disaster Mitigation Fund
SDMP	State Disaster Management Plan
SDRF	State Disaster Response Force
SDRF	State Disaster Response Fund
SDRMF	State Disaster Risk Management Fund

SEBA	Board of Secondary Education, Assam
SEC	State Executive Committee
SFDRR	Sendai Framework for Disaster Risk Reduction
SFPD	State Funding for Priority Development
SIDM	State Institute of Disaster Management
SIPRD	State Institute of Panchayat and Rural Development
SLDMC	State Level Drought Management Centre
SOP	Standard Operating Procedure
SOPD	State Owned Priority Development
SPV	Special Purpose Vehicle
SSA	Samagra Shiksha Abhiyan
SUV	Sports Utility Vehicle
T&D	Transformation and Development
TPDS	Targeted Public Distribution System
UAV	Unmanned Aerial Vehicle
UDD	Urban Development Department
ULB	Urban Local Body
UN	United Nations
UNDP	United Nations Development Programme
UNICEF	United Nations Children's Fund
VHF	Very High Frequency
VLCPC	Village-Level Child Protection Committee
VLDMC	Village Land and Disaster Management Committee
WAMUL	West Assam Milk Producers Cooperative Union Limited
WASH	Water, Sanitation and Hygiene
WHO	World Health Organization
WMO	World Meteorological Organization

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Government of assam

Envisioning A DISASTER RESILIENT ASSAM

Assam Disaster Risk Reduction Roadmap 2030

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