## 3.4.2 Flood / Flash Flood

Flood/ Flash flood being the most common natural disaster, people have, out of experience, devised many ways of coping with them. However, encroachments into the flood plains over the years have aggravated the flood problem and a need to take effective and sustained mitigation measures. Various measures, structural and non-structural, have been described below;

**Table 11: Structural & Non-Structural Measures** 

S. No.	Task	Activities	Responsibility	
Structural Measures				
1	Construction	<ol> <li>Improvement of design for irrigation and flood protective structures</li> <li>Construction of dams, flood protection wall, flood diverting channels etc.</li> <li>Strengthening/repair of existing roads and bridges and other critical infrastructure in flood plains.</li> <li>Strengthening of dams and canals.</li> </ol>	<ul> <li>♦ WRD</li> <li>♦ District Administration</li> <li>♦ Hydro-power</li> <li>♦ UD &amp; Housing</li> <li>♦ Forest</li> <li>♦ All other Works Dept.</li> </ul>	

2	Development of catchment area	Development of catchment area of the flood plain	◆ All Engineering Deptt
		<ul><li>◆ Forestation</li><li>◆ Land sloping</li></ul>	<ul><li>WRD</li><li>Dept. of Forest &amp;</li></ul>
		◆ Small reservoirs/Check dams/ponds etc.	<ul> <li>Environment/ SFRI</li> <li>Agriculture/ Horticulture</li> </ul>
			◆ PRIs/ ULBs
			Distt Administration
3	Flood Proofing	1. Specific building by laws for flood plains	♦ WRD
			◆ Dept. of Town Planning.
			◆ All Line Dept.

	I		2019
4	Techno-legal regime	Enactment and enforcement     of laws regulating     developmental activities in flood plain	<ul> <li>SDMA/DDMA.</li> <li>WRD</li> <li>Dept. of Town Planning.</li> <li>Dept. of Environment and Forests</li> <li>Dept. of Rural Development</li> <li>All Line Depts.</li> <li>District Admn</li> </ul>
5	Forecasting and	1. Strengthening and Upgradation of existing	◆ SDMA/DDMA
	Warning	Flood forecasting system	◆ WRD
		2. Establish infrastructure for flood warning and dissemination.	◆ CWC
			A IMD
			♦ IMD
			◆ District Admn.
		Non-Structural Measures	
1	Capacity	Departmental flood contingency plan	◆ WRD
	building	2. Flood related departmental action plan and SOP	◆ All Line Deptt
		3. Imparting training to the stakeholders	◆ Dept. of DM
		involved in flood mitigation and management.	◆ District. Admn.
2	Awareness	Disseminate flood risk to general public	♦ SDMA/DDMA
		residing in flood prone zones	♦ WRD
		Campaign for Flood safety tips	♦ IPR
			◆ CWC/IMD/ PHED
			<ul> <li>District Admn.</li> </ul>

20	1 7 /	n
	,,,	J
-20	-	7

3	Review of rules	Review of operational rules for reservoirs	*	SDMA/DDMA
			•	Hydro-Power
			•	WRD
			•	Dept.of Environment and
				Forests
			•	Dept. of Planning.
			•	All Line Dept.
			•	District Admn.