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Editorial...

The state of Kerala is the largest tourist destination in India. Due to the rains that fall here during the seasons, the hilly places, rivers, and estuaries become places of natural beauty. India has two biodiversity hotspots in the world, namely the Western Ghats and the Eastern Ghats. The Western Ghats, which stretch across six states from Gujarat to Tamil Nadu, have many rare creatures and amazing birds. It is also the birthplace of many perennial rivers of life. The central government formed a committee in 2014 to protect this ecological zone with an area of about 56,825 square kilometers and issued a report. Most of the places in the Western Ghats region that add beauty to beauty are tourist destinations. The people of Kerala depend on the Western Ghats for their livelihood, and these hills have been identified as highly vulnerable areas prone to landslides. 13 villages in Wayanad district in these hilly areas were hit by massive landslides in the early hours of Tuesday, July 30, 2024, due to incessant rain. More than 350 (approx.) people were killed in three successive landslides within three hours. Thousands have been saved from injuries. Also, the main bridge connecting Suralmala, Attamala, Mundakkai, and Anartham villages collapsed. The central and state governments are taking various initiatives to provide comfort to the rural hill dwellers of Wayanad who are losing their livelihoods. A landslide is a mass movement of rock, soil, and silt. These mature for a long time and then suddenly move from top to bottom due to continuous rains. Landslides are caused by gravity when piles of rock and soil debris accumulate, and heavy rains that lead to soil saturation also cause erosion at the base of the slope, science says. It is the roots of the trees that make the mountains beautiful and hold the soil and rock together to prevent landslides. But in the villages that have become tourist destinations, the buildings have been cut down and the trees have been built for modern conveniences. Landslides are classified into four main types based on their movement: falls, overturns, slides, and flows. All these are dangerous. Considered one of the most populous Indian states, Kerala has 14.5% of its land area vulnerable to floods. And it fits in seismic zone 3. Also, the most severe lightning strikes occur in the months of April, May, October, and November in this state. The state of Kerala has been identified as a region prone to landslides. In the west, about 8% of the area is covered by the Western Ghats. Rainfall in Kerala is about 3000 mm per year. In some cases, it exceeds 5500 mm. It is worth noting that 2018 saw 24% more rainfall than normal. The first officially recorded flood in Kerala occurred in 1881. The oldest known landslide occurred on October 4, 1882. The current landslide damage value is higher than the 2018 landslide damage in Wayanad. Mainly, the economic sector and the agricultural sector have suffered irreparable losses. The state government and various organizations have appealed to the central government to declare this a national calamity. It is significant that the UN Climate Change Committee indicated in its report three years ago that such natural calamities are likely to occur in Kerala. Likewise, the Kerala government should set up a comprehensive committee to examine the important points of biodiversity scientist Madhav Gadgil's report. In any case, it is the innocent public who ultimately suffers. And there is an urgent need to lay down a comprehensive, workable plan to avoid economic loss due to such natural calamities. This incident shows that man is still lagging behind in predicting natural calamities like rain, flood, storm, earthquake, and landslide. Strict legal norms should be laid down for establishing tourist spots in high mountain areas, and these areas should be kept under full surveillance. It is also necessary to set up high-level teams of geological surveyors and set up research laboratories with advanced tools to detect the impacts in advance with community awareness. On behalf of IJONS, we offer our deepest condolences and tearful tributes to the people who lost their lives and belongings in this landslide. Many sincere thanks to all the soldiers, social workers, medical teams, environmentalists, government employees, youth organizations who are on the rescue mission in the field. Let's love nature! Let's protect nature! Let's live in harmony with nature!

**Cover Image Credit: T.R.A.Arunthavaselman, Wild life Photographer,
Chief Editor
IJONS**