

Climate Change and Social Stress in India

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Abstract:-

One of the biggest environmental problems the world is currently experiencing is climate change. India is dealing with several issues. Climate change has been linked to several negative effects on social issues, including resource competitiveness, health effects, urban challenges, social equity, stress in agriculture and water resources. Climate change-induced phenomena such as erratic rainfall patterns, prolonged droughts, and melting glaciers are amplifying the country's water stress and climate-induced displacement often exacerbates existing socio-economic disparities, with marginalized communities bearing the brunt of the impacts. In India, the health impacts of climate change are contributing to heightened social tensions as communities grapple with increased risks of disease, heat-related illnesses, and inadequate healthcare infrastructure. The ecological and socioeconomic systems are already under a great deal of strain from fast industrialization, urbanization, and economic growth; climate change would put extra strain on them. This essay examines how social conflict in India is affected by climate change in all its manifestations.

Key word: - Climate Change, Social, Water Scarcity, Displacement, Agricultural Stress & Health Impact

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Introduction:

In India, the ramifications of climate change extend far beyond environmental concerns, penetrating deeply into the social fabric of the nation. As the impacts of climate change become increasingly pronounced, they are catalyzing a surge in social tensions across various domains, from resource competition to health disparities, displacement, and policy responses.

manifestations of this phenomenon lies in the realm of resource competition. With water scarcity intensifying due to erratic rainfall patterns and depleting groundwater reserves, communities are grappling with heightened conflicts over access to this vital resource. In agrarian regions, disputes over irrigation water have become commonplace, exacerbating existing socio-economic disparities and

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straining relations. community Simultaneously, climate change-induced events such as extreme heat waves, flooding and droughts are exacerbating health disparities and triggering tensions over access to healthcare services. Vulnerable populations, including the elderly and low-income communities, are disproportionately affected, amplifying grievances over inequitable resource distribution and healthcare access. The specter of climate-induced displacement looms large, particularly in coastal and agrarian regions. As sea levels rise and agricultural lands become increasingly untenable, communities are being uprooted, leading to tensions over resettlement, land rights, and access to livelihood opportunities. Additionally, divergent policy responses to climate change are fomenting tensions, with debates over resource allocation, mitigation strategies, and adaptation measures often pitting environmental concerns against economic imperatives. Disagreements over the fairness and efficacy of climate policies further exacerbate social divisions and erode trust in governmental institutions.

In essence, the intertwining of climate change with social tensions in India underscores the urgent need for holistic approaches that prioritize social equity, community resilience and inclusive decision-making. Only through concerted efforts to

address these multifaceted challenges can India navigate the complexities of climate change while fostering social cohesion and resilience in the face of adversity. The following points of effect of climate change on social tension are discussed below:

Water Scarcity:

In India, the nexus between water scarcity and climate change is exacerbating social tensions across various regions. Climate change-induced phenomena such as erratic rainfall patterns, prolonged droughts, and melting glaciers are amplifying the country's water stress. These environmental shifts are intensifying competition for dwindling water resources among agricultural, industrial, and domestic sectors, triggering social tensions and conflicts.

In rural areas, where agriculture is a primary source of livelihood, water scarcity is driving disputes over access to irrigation, exacerbating agrarian distress and farmer suicides. Marginalized communities, particularly those dependent on rain-fed agriculture, are disproportionately affected, further deepening existing socio-economic disparities. Additionally, the depletion of groundwater reserves due to over-extraction exacerbates the crisis, leading to conflicts over bore well usage and groundwater rights.

Urban centers are also grappling with water scarcity, exacerbated by population



growth, rapid urbanization, and inadequate infrastructure. Unequal distribution of water resources within cities exacerbates sociodisparities, with economic marginalized communities often bearing the brunt of inadequate access to clean water and sanitation facilities. This disparity fuels tensions and protests over unequal water distribution and inadequate government response.

Furthermore, the inter-state disputes over shared river basins, such as the perennial Cauvery River water dispute between Karnataka and Tamil Nadu, underscore the complex socio-political dimensions of water scarcity exacerbated by climate change. These conflicts not only strain inter-state relations but also exacerbate social tensions within affected regions. Addressing water scarcity and its associated social tensions requires resilience, sustainable water management practices, equitable resource distribution, and community participation. Collaborative efforts involving governments, civil society organizations, and local communities are essential to mitigate the impacts of water scarcity and foster social cohesion amidst climate change-induced challenges.

Agricultural Stress:

In India, agricultural stress exacerbated by climate change is fueling social tensions, particularly in rural areas where agriculture is

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a primary source of livelihood. Climate change-induced phenomena like unpredictable rainfall, heat waves and extreme weather events are disrupting traditional farming practices and reducing crop yields, leading to heightened economic insecurity and social unrest.

Farmers, especially smallholders and those reliant on rain-fed agriculture, bear the brunt of these impacts. Erratic weather patterns make it difficult for them to plan planting and harvesting, leading to crop failures and financial losses. The resulting debt burden and income instability contribute to a sense of despair among farmers, leading to protests, suicides, and clashes with authorities. Furthermore, disputes over water resources for irrigation exacerbate agricultural stress and social tensions. Depletion of groundwater comprehensive strategies that integrate climate R reserves due to over-extraction intensifies competition among farmers, leading to conflicts over bore well usage and water rights. Interactions with industries and urban centers for water resources can also lead to tensions. especially in regions where agriculture competes with other sectors for water.

> Social tensions are further fueled by disparities in access to resources and government support. Marginalized communities, including women and indigenous groups, often face greater



challenges in adapting to climate change impacts, amplifying existing social inequalities. Addressing agricultural stress and associated social tensions requires integrated strategies that prioritize climateresilient agriculture, equitable resource distribution, and community empowerment. irrigation Investments in infrastructure, drought-resistant crops, and farmer education can enhance resilience and mitigate conflict. Additionally, policies promoting social safety nets, access to credit, and mental health support for farmers are crucial for addressing the socio-economic dimensions of agricultural stress exacerbated by climate change.

Displacement and Migration:

In India, climate change-induced displacement and migration are increasingly becoming sources of social tension. Rising sea levels, extreme weather events, and prolonged droughts are forcing communities to abandon their homes and seek refuge elsewhere, leading to competition over resources and heightened social tensions.

Coastal communities are particularly vulnerable to displacement due to sea-level rise and coastal erosion. In low-lying areas like the Sundarbans, communities are being forced to relocate as their land becomes uninhabitable, leading to conflicts over resettlement and access to land and resources in host communities. Similarly, rural areas are

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experiencing internal migration as farmers and agricultural workers seek alternative livelihoods in urban centers due to droughts, crop failures, and loss of agricultural land. This influx of migrants strains urban infrastructure and services, leading to tensions with residents over housing, employment, and access to basic amenities.

Moreover. climate-induced displacement often exacerbates existing sociodisparities, economic with marginalized communities bearing the brunt of the impacts. Lack of adequate government support and rehabilitation measures further fuels social tensions, as displaced populations struggle to integrate into host communities. Addressing the challenges of climate-induced displacement requires comprehensive strategies that prioritize community resilience, equitable resource allocation, and proactive measures to support affected populations. Collaboration between governments, civil society organizations, and local communities is essential to mitigate social tensions and ensure the rights and well-being of climate migrants in India.

Resource Competition:

In India, climate change-induced resource competition is intensifying social tensions across various sectors. The growing scarcity of natural resources such as water, land, and forests, exacerbated by climate



change, conflicts fueling among communities, industries, and government agencies. Water scarcity is a major source of contention, as competing demands from agriculture, industry, and urban centers strain available water resources. Disputes over river water sharing between states, such as the Cauvery and Krishna rivers, highlight the complexities of resource competition exacerbated by climate change. Similarly, land degradation and deforestation worsened by climate change contribute to conflicts over land use, particularly in forested areas inhabited by indigenous communities. Competing interests between conservation efforts, industrial development, and traditional livelihoods lead to social tensions and environmental degradation.

Furthermore, as climate change impacts disrupt traditional livelihoods such as P agriculture and fishing, communities are increasingly vying for access to alternative sources of income, exacerbating socioeconomic disparities and tensions. Addressing resource competition exacerbated by climate change requires integrated and sustainable approaches that prioritize equitable resource allocation, community participation and conflict resolution mechanisms. Collaborative efforts between stakeholders, including governments, industries, civil society, and local communities, are essential to mitigate

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social tensions and ensure the sustainable management of natural resources in India.

Health Impacts:

In India, the health impacts of climate change are contributing to heightened social tensions as communities grapple increased risks of disease, heat-related and healthcare illnesses, inadequate infrastructure.

Climate change exacerbates the spread of vector-borne diseases such as dengue, malaria. and chikungunya, rising temperatures and altered rainfall patterns create more favorable breeding conditions for disease-carrying mosquitoes. Outbreaks of these diseases strain healthcare systems and lead to tensions over access to medical care and resources. Additionally, extreme heat waves, intensified by climate change, pose significant health risks, particularly to vulnerable populations such as the elderly, children, and outdoor workers. Lack of access to cooling facilities and inadequate public health measures exacerbate the impacts of heat stress, leading to increased morbidity and mortality rates and fueling social tensions.

Additionally, disparities in access to healthcare exacerbate social tensions, with marginalized communities facing greater barriers to medical services and resources. Limited availability of healthcare facilities and medical supplies in rural and remote areas



exacerbates health inequalities and contributes to social unrest. The health impacts of climate change require proactive measures to strengthen healthcare infrastructure, enhance disease surveillance and prevention efforts, and improve access to healthcare services for vulnerable populations. Collaborative efforts between government agencies, healthcare providers, community organizations, and civil society are essential to mitigate social tensions and ensure equitable health outcomes in the face of climate change in India.

Urban Challenges:

In India, urban challenges exacerbated and perceived fairness. Disputes arise over the by climate change, such as heat waves, allocation of resources for mitigation versus flooding, and infrastructure damage, are adaptation measures, with some arguing for fueling social tensions. Rapid urbanization, immediate action to reduce greenhouse gas inadequate infrastructure, and limited access to emissions while others prioritize adaptation to basic services exacerbate the impacts of climate impacts. Furthermore, policies aimed climate change on urban populations.

Heat waves, amplified by urban heat island effects, disproportionately affect vulnerable communities, leading to health issues and tensions over access to cooling facilities. Flooding, intensified by extreme rainfall events. damages homes and infrastructure, triggering disputes over resettlement and relief assistance. Moreover, disparities in access to services such as water, sanitation, and housing exacerbate social inequalities, leading to tensions between affluent and marginalized urban residents.

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Inadequate government response and planning exacerbate social tensions, as communities demand better adaptation and resilience measures to address urban challenges exacerbated by climate change. Collaborative efforts between government, civil society, and communities are essential to mitigate social tensions and build climate-resilient cities in India.

Policy Responses:

In India, policy responses to climate change can contribute to social tensions due to disagreements over priorities, implementation, and perceived fairness. Disputes arise over the allocation of resources for mitigation versus adaptation measures, with some arguing for immediate action to reduce greenhouse gas emissions while others prioritize adaptation to climate impacts. Furthermore, policies aimed regulating polluting industries may lead to tensions between environmental conservation economic development and interests. Disparities in the distribution of benefits and costs of climate policies can exacerbate social and fuel grievances inequalities among marginalized communities.

Additionally, lack of transparency, accountability, and inclusivity in policymaking processes can erode trust in government institutions and exacerbate social tensions. To address these challenges, policymakers need to



adopt participatory approaches that engage diverse stakeholders and ensure equitable distribution of benefits and burdens of climate policies, thereby fostering social cohesion and resilience in India.

Social Equity:

In India, social equity in the context of climate change is a pressing issue that can exacerbate social tensions. Climate change impacts disproportionately affect marginalized and vulnerable communities, exacerbating existing social inequalities. Disparities in access to resources, services, and opportunities amplify the impacts of climate change on marginalized communities, leading heightened tensions over environmental justice and fairness. For example, marginalized communities often lack access to adequate infrastructure, healthcare, and social protection, leaving them more exposed to RE vsocial inequities: The vulnerability of climate risks and less able to cope with the impacts. Moreover, unequal distribution of benefits from climate adaptation and mitigation measures can deepen socioeconomic divides and foster resentment among marginalized groups. Lack of inclusivity in decision-making further processes marginalizes vulnerable communities and undermines trust in institutions.

Addressing social equity in the context of climate change requires policies and interventions that prioritize the needs and

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rights of marginalized communities, promote inclusive decision-making processes, ensure equitable distribution of resources and opportunities, thereby reducing social tensions and fostering resilience in India.

References:

- 1. Bhagat, R.B. 2017. Climate change, vulnerability and migration in India: Overlapping hotspots. In Climate change, vulnerability and migration (pp. 18-42). Routledge India.
- 2. Dubash, N.K., Khosla, R., Kelkar, U. and Lele, S. 2018. India and climate change: Evolving ideas and increasing policy engagement. of Annual Review Environment and Resources, 43: 395-424.
- Santha, S.D., Jaswal, S., Sasidevan, D., Khan, A., Datta, K. and Kuruvilla, A. 2016. Climate variability, livelihoods and workers Indian migrant in cities. International area studies review, 19(1): 76-89.
- 4. Dubash, N.K. 2019. An introduction to India's evolving climate change debate. India in a warming world: Integrating climate change and development, 1-28.