

IPCC Report has classified India, as one of the major countries vulnerable to climate risks. This was repeated by other experts and International bodies like World Bank, IMF.

Reasons for High Vulnerability of India:

① Huge population density:-

any untoward events, because of Climate-Change risks the lives of many individuals

② Economic Structure:-

around 50% of working population is involved in Agriculture sector, which is one of the most vulnerable to climate change. livelihood of many depend on it.

③ Huge vulnerability to food-insecurity:- because of agriculture vulnerability to climate-change. It might induce poverty, hunger, Malnutrition problem in society

④ Social structure:-

Still, a huge inequality exist in society,

More inequality, would bring differential capacity to resist climate change.

(V) Huge Coastal line,
makes it vulnerable to sea submergence in sea.

(VI) Water - Issue :

India is highly dependent on Himalayan rivers. Seeing the faster pace of glacier melting, It might create a future water scarcity.

(VII) Lack of development in areas, which are vulnerable to climate change,
eg - North-East etc.

Some of the efficient Mechanisms:

(2) Mitigation mechanism:

(a) Urban Areas:

- Roll out of electric vehicles as soon as possible
- More focus on public transport
- More priority to Renewable energy generation, while, focusing on efficiency of Thermal power plants based production
- Afforestation in urban space, including near parks, Railway station
- Strictly implementing GRIHA Building Code.

(B) Rural areas:

- Agriculture sector, itself a great contributor to Green House gases. So, there should be specific Strategy to counter it, including research on less emitting variety of crops
- promotion of organic farming, to reduce land-degradation.
- Solar energy production, at decentralized level etc

(2) Adaptation mechanism

(A) Urban Areas:

- focus on Rain water Harvesting Structures for storage, seeing ~~scarcity~~ future water scarcity
- proper Sheds in cities, for Construction sites for workers rest, as Climate change might bring a situation, unfavorable for Construction workers, as per World Bank.
- Expansion of Urban Areas

(B) Rural Areas:

- Cropping pattern, according to land, ~~area~~ and availability of water
- Infrastructure in Agriculture, including vast irrigation network, to reduce dependence on Monsoon
- Climate resilient Agriculture.

Conclusion

Climate change is real and its impacts are harsh. We should be well-prepared seeing the vulnerability it has for India.