PERSPECTIVE FOR NATURAL DISASTER REDUCTION IN INDIA

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1. Overview of disaster incidence:

- A natural disaster is an event of nature, which causes sudden disruption to the normal life of a society andcauses damage to property and lives, to such an extent, that normal social and economic mechanisms, available to the society, are inadequate to restore normalcy. Viewed in this manner, a host of natural phenomena consistutes disasters to a society, whether they are related to an occurrence in a micro environment ornot in macro terms, the disastesrs, which cause widespread damage and disruption in India, are drought, flood, cyclone and earthquakes. India faces a substantial number of disasters occurring in the Asia Pacific region, which itself accouts for nearly 60% of natural disasters occurring in the World. It would be pertinent to take a brief look at the Indian susceptibility.
- 1.2.1 **Drought**: The country has a geographical area of 329.3 million hectares of which, the arable area consitutes about 140 million hectares. The distribution of the sown area under various ranges of rainrall is as under:
- (a) 33% Low Rainfall Region 750 mm (b) 35% - Medium Rainfall Region -1125 mm

(c) 24% - High Rainfall Region 125-2000 mm (d) 8% - Very High Rainfall 2000 mm Region

Because of the erratic behaviour of the rainfall, even the medium rainfall region is vulnerable to drought conditions. Consequently, 68% of the sown area is drought-prone.

: An area of 40 million 1.2.1 Flood hectares in the country is prone to floods. The area affected annuially, on an average, is 8 million hectares, which had risen to as much as 18.6 million hectares in a single year. On an average, the area of crops affected annually is 3.7 million hectares which rises to 10 million hectares in the worst affected year. The average annual direct damage is about Rs. 6268.5 million, which had risen to over Rs 40592.6 million in a single year. In fact, the statistics of damage from 1953 to 1985 indicate that the total damage sufferred by the country during this period is over Rs. 2.06.860 million. Deforestation in the catchments. inappropriate land use and degraded lands, inadequate capacity of drainage channels to carry the peak flow and extensive human occupation of the flood- propone plains aggravate the damage caused by floods.