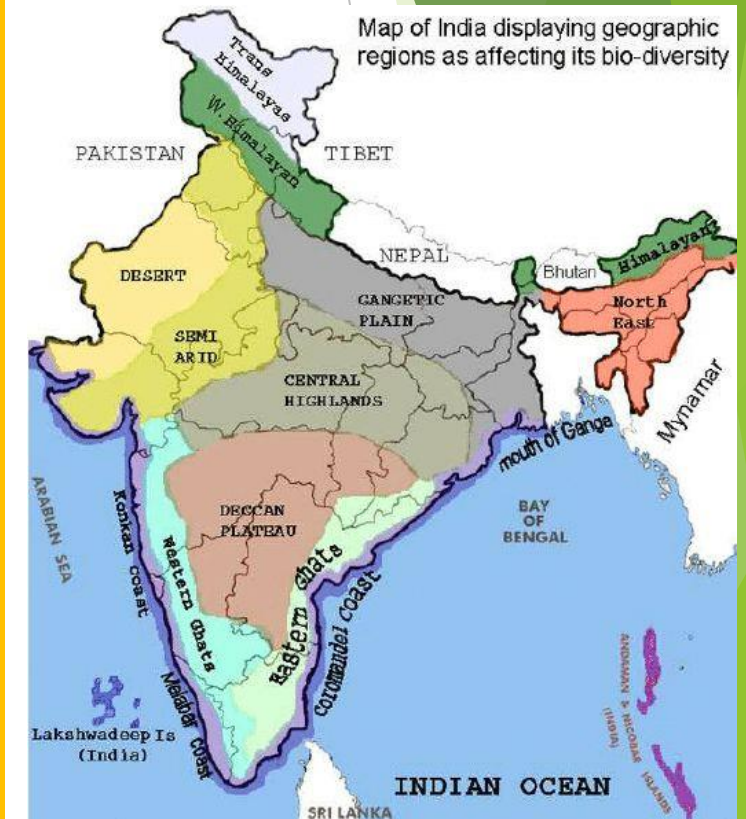


PRAAKRTIK AAPDA

AN INITIATIVE TO CHECK NATURAL DISASTER USING TECHNOLOGY

INDIAN LANDSCAPES

BEING A CONTRY WITH VARYING LANDSCAPES IT EXPERIENCES A VARIETY OF CONDITIONS. IN NORTH THERE ARE THE YOUNG HIMALAYAS WHICH DUE TO TECHTONIC MOVEMENTS ARE PRONE TO EARTHQUAKES. THEN THERE IS THE GREAT INDIAN DESERT AND THE RANN OF KUTCH WHICH EXPERIENCE EXTREME TEMPERATURE. PERENNIAL RIVERS LIKE GANGES , BRAHMAPUTRA ETC. DURING THE MONSOON SEASON SWELLS UP RESULTING IN THE FLOODING OF ADJOINING AREAS. SIMILARLY SOME PARTS OF COUNTRY EXPERIENCE TORRENTIAL RAINFALL WHICH RESULT IN FLOODING AND LANDSLIDE.COASTAL AREAS OF INNDIA ARE PRONE TO CYCLONES.AS WE ALL CAN DEDUCE THAT INDIAN LANDSCAPES ARE PRONE TO A VARIETY OF NATURAL CALAMITIES. BEING THE INEVITABLE ACCIDENTS OF NATUREN THEY CANNOT BE PREVENTED, BUT WE CAN TRY TO REDUCE THE DAMAGE CAUSED BY THEM.



LIST OF SOME COMMON CALAMITIES IN INDIA

1.FLOODS

DURING THE MONSOON SEASON FLOODS OCCUR IN INDIA RESULTING IN MASS DESTRUCTION. EXCESS , ERRATIC, TORRENTIAL AND UNTIMELY RAINFALL RESULTS IN CROPS DESTRUCTION, THUS CAUSING NOT ONLY HUMAN LOSS BUT ALSO IN ECONOMIC LOSS. IN RECNT YEAR OUR COUNTRY HAS WITNESSEDED SOME OF WORST FLOODING CONDITIONS , EX. 2018 KERALA FLOOD, 2013 NORTH INDIA FLOOD ETC.

2.LANDSLIDES AND AVALACHES

THESE PHENOMENONS ARE COMMON IN HIMALAYAN REGION. RISING POPULATION , INFRASTRUCTURE DEVELOPMENT HAS CAUSE PRESSURE ON THE YOUNG MOUNTAINS THEREFORE CAUSING LANDSLIDES. AVALANCHES ARE FREQUENT IN UPPER HIMALAYAS.

3.CYCLONES

BEING SITUATED IN NORTH INDIAN OCEAN INDIA IS VULNERABLE TO TROPICAL CYCLONES. ON AN AVERAGE EVERY YEART 2-3 CYCLONES LANDFALL IN OUR COUNTRY EVERY YEAR.

4.EARTHQUAKES

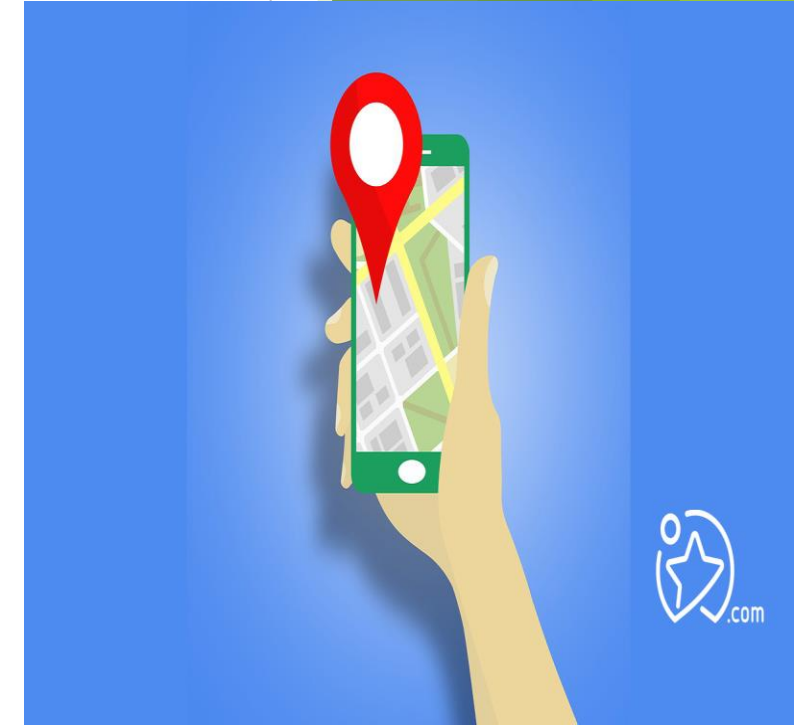
INDIAN SUBCONTINENT HAS A HISTORY OF DEVASTATING EARTHQUAKES. THE MAJOR CAUSE OF THEM IS MOVEMENT OF THE INDIAN PLATE TOWARDS EURASIAN PLATE. EARTHQUAKES DEPEND ON THE STRAIN AND STRESS BUILD-UP OF AN AREA

5.WILDFIRES

FORESTFIRES ARE REGULAR PHENOPMENON IN OUR COUNTRY. EVERY YEAR LARGE AREAS ARE AFFECTED BY FIRES OFR VARYING INTENSITY AND EXTENT

PRAAKRTIK AAPDA

- ▶ THIS IS AN APP THAT TRACKS LIVE LOCATION OF A PERSON AND WORKS ON BLUETOOTH SIGNALS
- ▶ WE ALL KNOW THAT NOWDAYS EVERYONE USES SMARTPHONES, IF PEOPLE OF THE REGION ARE MADE AWARE ABOUT THE NEED OF INSTALLING THIS APP IN WHICH 1 PERSON OF A FAMILY CAN ADD 6 BENEFICIARIES, THEN THROUGH THE SERVER IT CAN BE CALCULATED THE NUMBER OF PEOPLE IN A REGION.
- ▶ ONE MORE FEATURE OF THIS APP IS THAT IT SHOWS ALL THE METEOROLOGICAL CONDITIONS OF THAT PARTICULAR REGION - THAT THE WATERLEVEL IF A RIVER IS NEARBY, TEMPERATURE CONDITION, MOVEMENT OF TECTONIC PLATES, AMOUNT OF RAINFALL ETC.
- ▶ IF ANY OF THESE CONDITIONS IS AWAY FROM NORMAL VALUES AND INDICATE THE POSSIBILITY OF A DISASTER THEN THE SAFETY ALARM IN PHONES WILL BEEP



- ▶ NOW THE AUTHORITIES CAN REACH IN TIME AND CAN RESCUE PEOPLE BEFORE ANY ADVERSE SITUATION HIT.
- ▶ IN CASE IF ALL STRUCK LIVES AREN'T RESCUED IN TIME THEN THIS APP CAN TELL HOW MANY ARE STRUCK AND THEIR LOCATION CAN BE TRACED.
- ▶ THIS CAN HELP THE SDRF AND NDRF TEAM TO HELP RESCUE PEOPLE IN TIME
- ▶ THIS APP CAN ALSO TELLS PEOPLE ABOUT NATURAL DISASTER AND WHAT PRECAUTIONS PERSON LIVING IN DISASTER PRONE AREAS CAN TAKE.
- ▶ ON THIS PLATFORM AWARENESS PROGRAMMES AND CAMPAIGNS BE ORGANISED WHICH CAN HELP PEOPLE NOT TO PANIC IN THESE SITUATIONS AND WHAT THEY CAN DO TO PROTECT THEMSELVES.
- ▶ A DONATION OPTION IS ALSO AVAILABLE WHERE PEOPLE ALL OVER THE COUNTRY CAN DONATE TO HELP THE PEOPLE IF SUCH MISERABLE CONDITION EVER OCCUR IN ANY PART OF INDIA