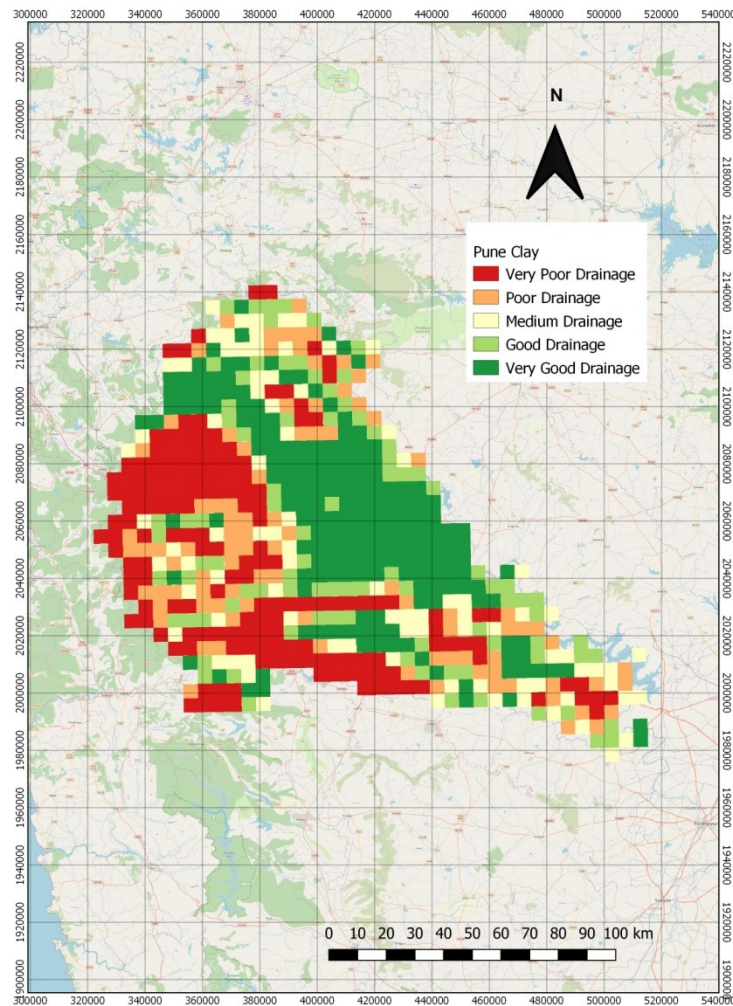


Title: Clay type soil map of Pune district



Map description and analysis

Soil is one of parameter considered for deriving hazard map.

In Pune district , clay type and loamy type soil is found in many places.

It is a type of fine-grained natural soil material containing clay minerals. Clays develop plasticity when wet, due to a molecular film of water surrounding the clay particles, but become hard, brittle and non-plastic upon drying or firing.

After processing raw data, clay soil map is obtained and is classified into five classes as very poor drainage to very good drainage from flood hazards perspective.

Team Name: Gagan

Topic: Clay type Soil map

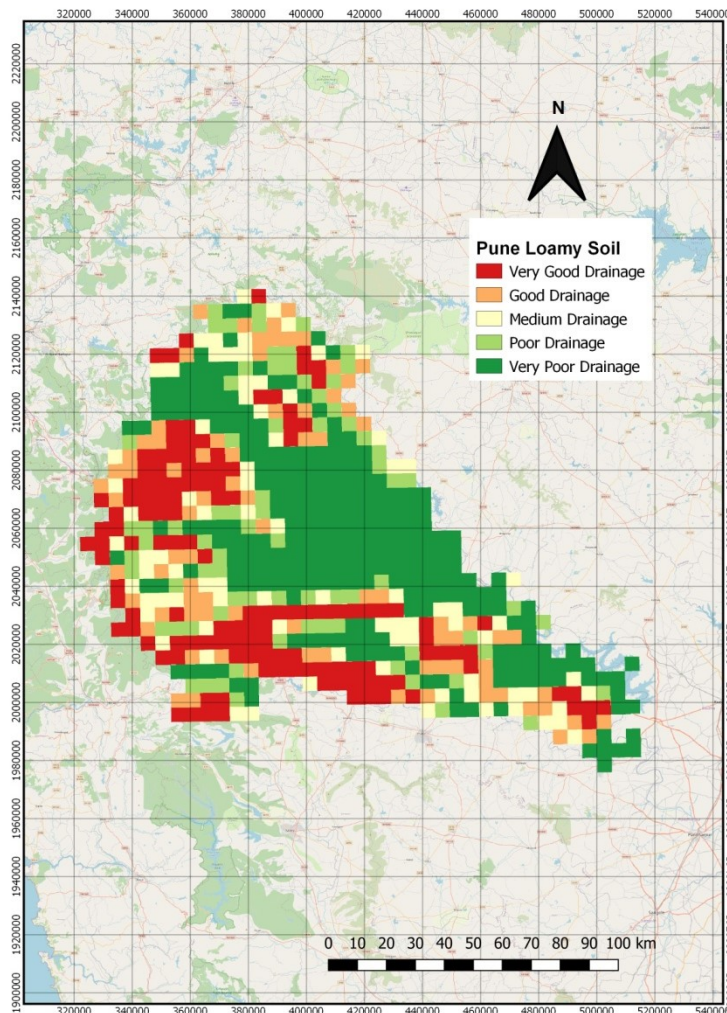
Team Member/Lead: Anjali Jagtap, Ganesh Chavan, Varsha Degaonkar, V Rajesh Chowdhary

Organization: Hope Foundation's International Institute of Information Technology

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Data courtesy: BHUVAN, ISRO, FOSSEE, Worldpop

Title: Loam type soil map of Pune district



Map description and analysis

In Pune district, clay type and loamy type soil is found in many places.

Loam is soil composed mostly of sand (particle size > 63 micrometers (0.0025 in)), slit (particle size > 2 micrometers (7.9×10^{-5} in)), and a smaller amount of clay (particle size < 2 micrometers (7.9×10^{-5} in)).

By weight, its mineral composition is about 40–40–20% concentration of sand–silt–clay, respectively.

After processing raw data, loam soil map is obtained and is classified into five classes as very good drainage to very poor drainage from flood hazards perspective.

Team Name: Gagan

Topic: Loam type Soil map

Team Member/Lead: Anjali Jagtap, Ganesh Chavan, Varsha Degaonkar, V Rajesh Chowdhary

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