**Construction in Western Nepal and its Repercussions on Health** Saurav Dev, B.Tech , Department of Civil Engineering, National Institute of Technology, Warangal, India-506004, <u>sauravdev3345@gmail.com</u>

#### INTRODUCTION

- With the instigation of seven provinces in Nepal, development has decentralized.
- Influx of capitalistic ideas into the nation has made profit the most important criteria for development works.
  - Construction in western Nepal is no exception!!!
    - > SPT, BH, MCs and BCs

#### METHODOLOGY

- SPT Test, Seive Analysis,
  Bore Hole logs,
- Soil Classification and
  - Water Content
- For Hydropower
  Project, Shear failure
  Criteria, Settlement,





#### Liquefactiont and Consolidation is studied

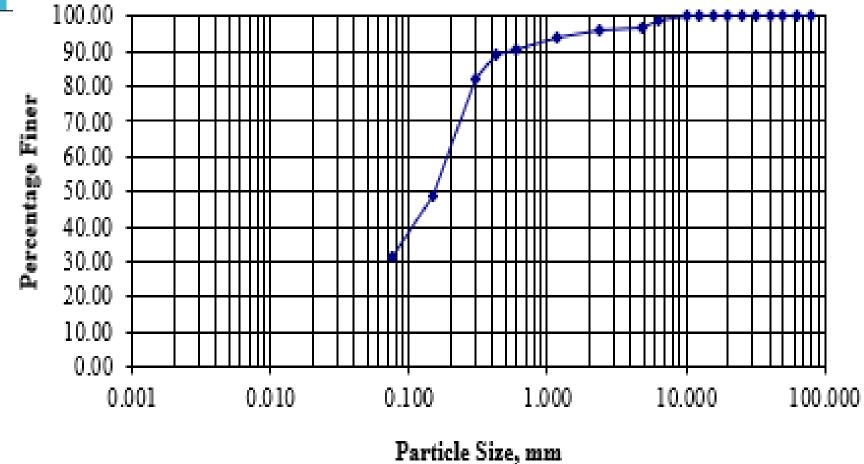
### RESULTS AND DISCUSSION

- LCA was not suggested by the contractor
- Consequences of Materials used were found
- Opting for Polymer based cellular confinement systems suggested
- Leaching of metals and toxins is a major environmental hazard.
- IS and ASTM codes are followed

<u>yet more can be</u> done.

## CONCLUSIONS

- Even though, EIA clearly set by
   Government, no emphasis on use.
- Environmental,political, social and economic
   factors as a whole need
   to be considered.
- Future work on the water content difference, drought and reinforcing new technolgies.





#### REFERENCES

# ✓ Research papers (as mentioned in my paper) from Europe, South America, Australia and Asia ✓ ASTM E 290 – 97a, ASTM D 448 – 98 and IRC 5 2015 ✓ Ministry of Forests and Environment, Government of Nepal Manual