List of R & D projects

Completed and Ongoing:

- **MHRD**: Development of E-content on Slope Engineering, 2009-10, Total Grant 7.0 Lakh, PI

- **Institute sponsored project**: Effect of Plants on Soil Reinforcement, 2009-10, Total Grant = 0.5 Lakh, PI

- **Institute sponsored project**: Stability analysis of mine waste dump by 3D Numerical Modeling, 2014-16, Total Grant = 9.0 Lakh, PI

  a. **Institute sponsored project**: Integrated approach for Planning of the Underground Coal Mines, 2014-16, Total Grant: 6.0 Lakh (Co-PI)

Submitted Project:

- **CSIR**: Slope Stability Classification of Internal Mine Dump by Numerical Simulation. Total Grant = 62.4 Lakh, PI

- **Institute sponsored project**: Effect of Underground Coal Mine Subsidence on health of plants, Total Grant 15 Lakh, PI
Consultancy Project

- Chhattisgarh Mineral Development Corporation Ltd (2012): Evaluation of alternative mining system and Social cost benefit analysis,
- Western Coalfields Limited (2013): Stability analysis of mine waste dump, Mungoli OCP
- Western Coalfields Limited (2013): Embankment study against wardha river, Ghugus OCP
- Mangilall Rungta (2013): Slope stability for Karanjia China Clay mines,
- Indigo Infra Limited (2013): Soil retaining/ excavation work at factory building plot no 28, DIF Industrial Area, Moti Nagar
- Indigo Infra Limited (2014): Soldier pile/ anchor wall stabilization design for the crest Project in DLF City, Phase - V, Gurgaon)
- Indigo Infra Limited (2014): Soil retaining system by soldier piling & anchoring at DLF YPPC Project, Chanakyapuri
- Indigo Infra Limited (2014): Shoring design NCAER Project Delhi Parisila Bhawan, 11 IP ESTATE
- Indigo Infra Limited (2014): Soil Stabilization for Archon Estate Project, 9, Tolstoy Marg, Connaught place
• Indigo Infra Limited (2015): Design analysis of cut slopes protection of slopes with Grouted self drilling nails geomesh & wiremesh, Central University of Jammu

• Indigo Infra Limited (2015): Wall-4 Slope Stabilization Design For DLF Homes, Panchkula, DLF Homes Panchkula Pvt Ltd


• Indigo Infra Limited (2015): Soldier Pile/ Anchor wall Stabilization Design For Rajiv Gandhi Cancer Hospital & Research Centre, Rohini, New Delhi

• Cairn India Limited (2014): land subsidence due to extraction of oil and gas from PKGM-1 Block in KG Basin