

RESUME

- Name and Address: **Dr. P. Subramanya Prasad**

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Geotechnical Engineering Division
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- Date of Birth : 06-05-1971
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Educational Qualifications:

Qualification	Specialization / Subject(s)	Year	Division	University / Institute
Ph.D	Geotechnical Engineering	2016	Course work CGPA: 9.5/10	Indian Institute of Technology Delhi (IITD), Delhi
M. Tech	Geotechnical Engineering	1998	First Class	Indian Institute of Science (IISc), Bangalore, Karnataka
B.E	Civil Engineering	1996	First Class with Distinction	Sri Venkateswara University, Tirupati, Andhra Pradesh

Employment details

Grade/Post	Lab./Institution	Duration from	Duration to
Principal Scientist	Central Road Research Institute	12-11-2012	Till date
Senior Scientist	Central Road Research Institute	12-11-2009	11-11-2012
Scientist 'C'	Central Road Research Institute	12 -11- 2005	11-11-2009
Scientist 'B'	Central Road Research Institute	12- 11- 2001	11 - 11- 2005
Research Fellow	Central Building Research Institute	2000	2001
Project Assistant	Indian Institute of Science, Bangalore	1998	2000

Awards

- ❖ **Supreme Engineers Award-2012** (best engineer in the category - "Railways") from Economic Research India Pvt Ltd, Mumbai for the innovative technology for the construction of underpass below railway embankment.
- ❖ **IGS – Mr. H.C. Verma Diamond Jubilee Award – 2013 (Innovative instrument design award)** for development of a large scale test apparatus for measuring interface bond resistance between geosynthetics/G.I strips and backfill from Indian Geotechnical Society, India. (Received cash prize of rupees 12500/- only)
- ❖ **ISRM TT best paper award** for paper "Study of Rockfall on Mumbai – Pune Expressway – A Case Study" under the category 'Application of Rock Mechanics in Hill Area & Water Resources Development' (Received in the year 2011).

- ❖ **IGS-Shri R.N. Prasad Biannual Award – 2013** for the paper entitled, “Investigation and Design for Restoration of Hill Slope in Mizoram” published in Indian Geotechnical Journal.
- ❖ **Best paper award - 2013** for the paper titled “Design of remedial measures at Lukhbir slide on NH - 31A” published in Journal of Engineering Geology.

Patents

Title of the invention : *Stepwise repeated destabilization and stabilization of highly collapsible soil mass by 'soil nailing technique' used for construction of railway/road underpass*

Patent granted from

1. USA (Patent No: 9359725 dated 07/06/2016),
2. Sri Lanka (Patent Number 18089 dated 19/01/2015) and
3. Singapore (Patent no. 11201500373T dated 17/05/2016).

Patent Filed in

4. India (publication number: WO2014013508 A2, dated 23/01/ 2014).
5. U.K (0233NF0211/GB, dated 17/07/ 2013).

Books/chapter

Title of Book/chapter	Name of Publisher	Year of Publication
Landslide Science for a safer Geo-environment. Chapter title: Monitoring of Critical Himalayan Landslides and Design of Preventive Measures	Springer International (Switzerland)	2014

IRC publications

1. The Design and Construction of Geosynthetic Reinforced Embankments on Soft Soils.

IRC H4 Committee made a special group with five members to finalize / improve the Guidelines for “the Design and Construction of Geosynthetic Reinforced Embankments on Soft Soils”. I am one of the five member group to assist/ preparation of the guidelines and interacted with the different geosynthetics company representatives.

- ✓ *The Design and Construction of Geosynthetic Reinforced Embankments on Soft Soils (IRC: 113 – 2013) published by Indian Road Congress (IRC) in the Year 2013.*

2. Guidelines on management of landslides on Indian roads and highway (Sponsored by IRC)

AS Co-project Investigator along with a team of scientists have prepared “Engineering Guidelines on Landslide Mitigation Measures for Indian Roads” (IRC: SP: 106 – 2015), which was sponsored by Indian Road Congress (IRC).

Publications

Journals

1. **Prasad, P.S.**, and Kumar, K., (2017). Slope stability evaluation erosion control and landslide correction between km 67.0 to 106.39 on NH-5, Himachal Pradesh. SP of Journal of Engineering Geology, 42 (2), 1 - 12.
2. **Prasad, P. S.**, and Ramana, G. V. (2016). Imperial Smelting Furnace (Zinc) Slag as a structural fill in reinforced soil structures. Geotextiles and Geomembranes. 44(3), 406 – 428. (**SCI impact factor 2.87**)
3. **Prasad, P. S.**, and Ramana, G.V. (2016). Feasibility of copper slag as a structural fill in reinforced soil structures. Geotextiles and Geomembranes, 44(4), 623 – 640. (**SCI impact factor 2.87**)
4. **Prasad, P. S** and Ramana, G.V. (2016). Reply for Dr. Xu’s discussion of “Feasibility study of copper slag as a structural fill in reinforced soil structures” by P. S. Prasad and G.V. Ramana, 44(4), 623 – 640. Geotextiles and Geomembranes 44(6). 897 - 898. (**SCI impact factor 2.87**)
5. Vittal, U.K.G., and **Prasad, P. S.** (2015). Slope protection works for rockfall prevention, New Building Materials and Construction World, 21 (3), 88 – 96.
6. **Prasad, P.S.**, Kumar, K., Negi, I.S., and Kathait, A. (2014). Design of remedial measures at Lukhbir slide on NH – 31, Journal of Engineering Geology, 28 (2), 49 – 62. (**Best Paper Award**)
7. Negi, I.S., Kumar, K., Kathait, A., and **Prasad, P. S.** (2013). Cost assessment of losses due to recent reactivation of Kaliasaur Landslide on National Highway 58 in Garhwal Himalaya, 68(2), Natural Hazards, 901 – 914. (**Impact factor: 1.833**)
8. Vittal, U.K.G., and **Prasad, P.S.** (2013). Design and Construction of Road Embankment using fly ash in waterlogged area, New Building Materials and Construction World, 19 (3), 116 – 123.
9. Panigrahi, R.K., Vittal, U.K.G., **Prasad, P. S.**, Mathur, S., and Gupta, P. (2011). Investigation and design for restoration of hill slope in Mizoram, Indian Geotechnical Journal, 41(4), 215 – 225. (**Best Paper Award**)
10. Kathait, A., Kumar, K., **Prasad, P. S.**, Singh, K., and Negi, I. S. (2011). Simple method for quick change detection using some topographic detection using some topographic attributes within Patalganga landslid, 5 (1 and 2), April and November 2011, Disaster and Development. pp. 11 – 22.
11. Panigrahi, R.K., Vittal, U.K.G., **Prasad, P. S.**, and Mathur, S. (2010). Geological and geotechnical investigations for remedy of slope failure problem at Km 214.240, of NH – 39 in Nagaland, Indian Highways, June, pp. 29 – 45.
12. Kumar, K., **Prasad, P. S.**, Mathur, S., and Kimoti, S. (2010). Rockfall and subsidence on Mumbai – Pune Expressway. International journal of Geo-engineering Case Histories, 2(1), pp. 24 – 39.
13. Panigrahi, R. K., Vittal, U. K. G., **Prasad, P. S.**, Gupta, P., Mathur, S. (2009). ‘Geotechnical Classification of Rocks for Hill Slope Failure at km 45.00 on NH-150, Mizoram’, Published in Indian Mining and Engineering Journal, Vol.47, No.9, 2009
14. Kumar, K., Gupta, P., **Prasad, P. S.**, and Mathur, S. (2008). Design of suitable corrective measures for stability of critical slope near Kol dam, H.P – A Case Study, Indian Highways, January, pp. 41 – 47.

15. Havanagi, V.G., Mathur, S., **Prasad, P.S.**, and Kamaraj N. (2007). Feasibility of copper Slag – Fly ash soil mix as a road construction material. Transportation Research Record; Journal of the Transportation Research Board, 1989(2), pp. 13-20, 2007.
16. Kumar, K., **Prasad, P. S.**, Goyal, N., and Mathur, S. (2007). Large – Scale -Mapping and Monitoring of the Patalganga Landslid, Disaster and Development, Journal of the national Institute of Disaster Management, 1(2), pp. 187 – 196.
17. Kumar, K., **Prasad, P. S.**, Goyal, N., and Mathur, S. (2007). Study of Rockfall at Amritanjan Bridge site on Mumbai – Pune Expressway – A Case Study, Jl. Of Rock Mechanics and Tunnelling Technology. 13(2), pp. 129 -139. (*Best Paper Award*)
18. Havanagi, V. G., **Prasad, P. S.**, Vittal U.K, G and Mathur, S. (2006). Feasibility of utilization of copper slag – fly ash - soil mixes for road construction, Highway Research Bulletin, Highway Research Board, Indian road congress, No. 75, pp. 59 – 67.
19. Sridharan, A., Nagaraj, H.B., and **Prasad, P. S.** (2000). Liquid limit of soils from equilibrium water content in one-dimensional normal compression. Proceedings of the ICE -Geotechnical Engineering, 143(3), pp. 165 – 169.
20. Sridharan. A, Pandian, N.S., and **Prasad, P. S.** (2000). Liquid limit determination of class F coal ash. Journal of Testing and Evaluation, JTEVA, ASTM, 28(6), pp. 455 – 461.

International / National Conferences

21. **Prasad, P.S.**, Vittal, U.K.G., Sitaramanjaneyulu, K., and Madhav, M. R. (2016) “Remedial Measures for Upheaval of PQC Panels Adjacent to Piers of Monorail in Mumbai” 5th International Conference on Forensic geotechnical Engineering (5ICFGE), 8th - 10th December 2016, Bangalore, India, pp. 366 – 377.
22. Anand, A. K., **Prasad, P.S.**, and Kumar, K. (2015), "Geomorphometric analysis of Chamoli and Karnaprayag District, Uttarakhand in respect to Hazard Zonation of the Area " ISPRS WG VIII/1 Workshop on Geospatial Technology for Disaster Risk Reduction, Jaipur, India on 17th December, 2015
23. **Prasad, P.S.**, and Ramana, G.V. (2014). Utilization of Copper Slag as a structural fill for mechanically stabilized walls, Paper no. 12, 10 ICG (International conference on Geosynthetics), 21 – 25 September 2014, Berlin, Germany.
24. Kumar, K., **Prasad, P.S.**, Kathait, A., and Negi, I., (2014), Monitoring of critical Himalayan landslides and design of preventive measures. In: K. Sassa et al. (eds.), Landslide Science for a Safer Geoenvironment, Vol. 2, Part V, Springer International Publishing Switzerland, pp 583-588.
25. **Prasad, P.S.**, and Ramana, G.V. (2013). Study to determine feasibility of using imperial smelting furnace slag as structural fill for mechanically stabilized walls, Nov. 18 – 20, 2013 GhIGS GeoAfrica 2013 Conference, Accra, Ghana
26. Kumar, K., **Prasad, P. S.**, Kathait, A and Negi, I. S. (2013), Over Eight Decades Old “Young” Landslide – a case study, Seventh International Conference on Case Histories in Geotechnical Engineering, April 29 – May 4, 2013, Chicago.
27. Vittal, U.K.G., **Prasad, P.S.**, Kishor, K., and Mathur, S.(2013), Rockfall mitigation studies on NH – 22 – A Case Study, Proc. of the Indian geotechnical conference (IGC), Theme 7, December 22-24, 2013, Roorkee.

28. Kumar, K., **Prasad, P. S.**, Goyal, N. K., Kathait, A., and Negi, I. S. (2013), Successful case studies of some critical landslides on various Border Roads, Technical Seminar on Construction of Roads and Bridges in Challenging Conditions like Hills, High Rainfall and Snow Bound Areas July 18-19 2013, Pune.
29. Vittal, U.K.G., **Prasad, P.S.**, Kumar, K and Mathur, S. (2013), Rockfall mitigation studies on NH – 22 – A Case Study, December 22-24, Proc. of the Indian geotechnical conference (IGC)2013, Roorkee, India.
30. **Prasad, P.S.**, Kumar, K., Vittal, U.K.G., Mathur, S, Bhagwan, J., Singh, K. (2012), Landslide Investigation at km 162, NH-39, - a case study, Proc. of the Indian geotechnical conference (IGC), vol. 2. pp. 1100 – 1103, December 13-15, 2012, Delhi.
31. Kumar, K., Kathait, A., **Prasad, P.S.**, Goyal, N.K., Singh, K., Negi, I. S and Gangopadhyay, S. (2012), Geoenvironmental Appraisal of Landslide Hazards on Highways, 13th ESRI India User Conference, Noida (NCR), December 5-6. 2012.
32. Kumar, K., **Prasad, P.S.**, Kathait, A., Negi, I. S. and Mathur, S, (2012) Road Tunnel, A Need for Immediate Consideration to Avoid Loss and Sufferings From Landslide Disasters on Himalayan Highways, WTC2012 - Tunneling and Underground Space for a Global Society, 18-23 May, 2012, Bangkok, Thailand.
33. Kumar, K., Kathait, A., and **Prasad, P.S** (2012). Strategies for landslide risk mitigation on Indian Highways, Proc. of the Indian geotechnical conference (IGC), Vol. 2, pp. 1081 – 1084, December 13-15, 2012, Delhi.
34. Sinha, A. K., Havanagi, V. G., **Prasad, P.S.**, Kumar, K., and Mathur, S. (2012) 'Design of tunnel muck dumping yard at Jammu & Kashmir rail link', Published in national conference and field study on landslide management, Nainital, March 2012
35. Kumar, K., **Prasad, P.S.**, and Mathur, S. (2011). Debris flows in North Eastern Region of India – a Case Study 14th Asian Regional conference on Soil Mechanics and Geotechnical Engineering , Hong Kong, China, pp426, Paper No: 467, 23-27, May 2011. (Soil Mechanics and Geotechnical Engineering: Challenges and solutions)
36. Bhagwan, J., **Prasad, P.S.**, Kumar, K., and Mathur, S. (2011). Investigation for stabilisation of landslides in Bhutan, 14th Asian Regional conference on Soil Mechanics and Geotechnical Engineering , Hong Kong, China, pp399, Paper No: 145, 23-27, May 2011. (Soil Mechanics and Geotechnical Engineering: Challenges and solutions)
37. Kumar, K., **Prasad, P.S.**, Kathait, A., Kalota, D., Negi, I. S., Kimoti, S., and Mathur, S, (2011). Landslide susceptibility analysis by using frequency ratio method of Patalganga Valley, Garhwal Himalaya. Proceeding of National Conference on Landslide Hazard Consequences and Challenges, pp.30 – 47, Feb. 10 -12, 2011, Roorkee, India.
38. Kumar, K., **Prasad, P.S.**, Negi, I.S., Kathait, A., Kimoti, S., Singh, K., and Mathur, S. (2011). Recent Reactivation of Kaliasaur landslide and impact thereafter. Proceeding of National Conference on Landslide Hazard Consequences and Challenges, pp. 48 – 58, Feb. 10 -12, 2011, Roorkee, India.
39. Kumar, K., **Prasad, P.S.**, Shivashis Kimoti, Indervir S Negi, , Kathait, A., Abhilipsa Dash, and Mathur, S. (2011) Kinematic slope stability analysis of Kaliasaur Landslide on NH 58, Garhwal Himalaya, Third Indian Rock Conference, INDOROCK 2011, Oct. 13 – 15, 2011, Roorkee, India. pp. 341 – 347.

40. Kumar, K., **Prasad, P.S.**, Kathait, A., Inder S Negi, and Mathur, S. (2011) Landslide Hazard Management on Mountainous Highways – A Critical Need, 12th ESRI India user Conference, Dec. 7 – 8, 2011, New Delhi, India.
41. Vittal, U.K.G., **Prasad, P.S.**, and Mathur, S. (2011) Construction of Road Embankment using fly ash in water logged area: a case study, National Conference on Fly ash, Dec. 5 – 7, 2011, Hyderabad, India. pp. v2.1 – v2.7.
42. **Prasad, P.S.**, Kumar, K., Ganesh, J., Vittal, U. K. G., and Mathur, S. (2011) Landslide Investigation at Km 221, NH – 39 – a Case study, pp. 1007 – 1010, IGC 2011, Dec. 15 – 17, 2011, Kochi, Kerala, India.
43. Singh, K., **Prasad, P.S.**, Ganesh, J., Bhagwan, J., and Mathur, S. (2011) Geotechnical investigations and design of remedial measures for roads at Visakhapatnam port area, Visakhapatnam, pp. 1015 – 1018, IGC 2011, Dec. 15 – 17, 2011, Kochi, Kerala, India
44. **Prasad, P.S.**, Kumar, K., Vittal, U. K. G., and Mathur, S. (2010). Regeneration of Debris flow and landslide, on National Highway – 39 near Kohima, Nagaland, India ISFGE 2010 forensic approach to analysis of Geohazard problems, 14 – 15 Dec.2010, Mumbai, India, pp 122 – 127.
45. Vittal, U.K.G., **Prasad, P.S.**, and Mathur, S.(2010) Sub-surface Drainage Measures for Lowering Ground Water Table at Pantnagar Airport, Indian Geotechnical Conference 2009, Guntur, India, 2010, pp 162 -165
46. Vittal, U.K.G., **Prasad, P.S.**, and Mathur, S. (2010). ‘Construction of road embankments over marine clay deposits – Significance of instrumentation for monitoring consolidation’, Published in the Conference on Trends and Advances in Transportation Engineering (TREAT-2010), organised by Bangalore University Highway Engineering Alumni Association, March 2010.
47. Kumar, K., **Prasad, P.S.**, Kimothi, S., Ganesh, J., and Mathur, S. (2010) A Geomorphologic Appraisal of Patalganga Landslide on National Highway-58, Garhwal Himalaya, Uttaranchal, Indian Geotechnical Conference 2009, Guntur, India, 2010, pp 599 – 603.
48. Bhagwan, J., Singh, K., **Prasad, P.S.**, and Mathur, S. (2010). Stabilisation of soil for police parade grounds of Delhi police training school, Delhi Indian Geotechnical Conference 2009, Guntur, India,2010, pp 569 – 573.
49. Kumar, K., **Prasad, P.S.**, and Mathur, S. (2009). Mitigation and Management of Slope Hazards on Mumbai – Pune Expressway World Tunnel Congress(WTC) 2009, May 23-28, 2009, Budapest, Hungary
50. Havanagi, V. G., Sinha, A.K., **Prasad, P.S.**, Sitaram, K., and Mathur, S. (2009). Copper slag as an alternative material for road construction 24th international conference on Solid Waste technology and Management, Philadelphia, U.S.A, March 2009, pp 133 – 144.
51. Vittal, U.K.G., **Prasad, P.S.**, Ganesh, J. and Mathur, S. (2008). Design of Road Embankment in the Salt Marsh Area in Kutch, Gujarat, Symposium on Engineering of Ground and Environmental Geotechnics , Hyderabad, Feb 2008, pp. 128 -133.
52. Vittal, U.K.G., **Prasad, P.S.**, Sharma, N. K., and Mathur, S. (2008). ‘Designing Ground Improvement Techniques in Soft Clay Areas’, Published in the Proceedings of National symposium on Geoenvironment, Geohazards, Geosynthetics and Ground Improvement – Experiences and Practices (Geosymposium 2008), Organised by IGS Delhi Chapter, Delhi, July 2008.
53. Bhagwan, J., Mukherjee, D., **Prasad, P.S.**, and Mathur, S. (2008). Investigations for stabilization of Slopes in Bhutan, Symposium on Engineering of Ground and Environmental Geotechnics , Hyderabad, Feb 2008, pp. 134 -137.

54. Kumar, K., **Prasad, P.S.**, Mathur, S and Goyal, N. K. (2008). Study of Rockfall and Subsidence at km 41 on Mumbai – Pune Expressway – A Case Study, Proceedings of 12th International conference of International association for Computer Methods and advances in Geomechanics, Goa, 2008, pp 4659 - 4666.
55. Kumar, K., **Prasad, P.S.** , Mathur, S and Goyal, N. K. (2008). A Study on Debris and earth Flow on National Highway – 39, Near Kohima, Nagaland, Proceedings of 12th International conference of International association for Computer Methods and advances in Geomechanics, Goa, 2008, pp 4453 - 4460.
56. Panigrahi, R.K., Vittal, U.K.G., **Prasad, P.S.**, and Mathur, S. (2008). Geomechanical Classification of Rocks of Mao landslide at Km 214.240 on NH – 39, Nagaland Proceedings of National symposium on Geoenvironment, Geohazards, Geosynthetics and Ground Improvement – Experiences and Practices, Delhi, 2008, pp 275 – 281.
57. Vittal, U.K.G., **Prasad, P.S.**, Sharma, N.K., Sinha, A.K., Havanagi, V.G., and Mathur, S. (2008). Designing Ground Improvement Techniques in soft Clay areas Proceedings of National symposium on Geoenvironment, Geohazards, Geosynthetics and Ground Improvement – Experiences and Practices, Delhi, 2008, pp 350 – 356.
58. Bhagwan, J., Singh, K., **Prasad, P.S.**, and Mathur, S. (2008) Feasibility of suitable fill material for embankments – A Case Study Proceedings of Indian Geotechnical Conference, Bangalore, Dec 2008.
59. **Prasad, P.S.**, Vittal, U. K. G., and Mathur, S. (2007). Failure of Reinforced Earth Slope – A Case Study Proceedings of First Indian Young Geotechnical Engineers Conference, Hyderabad, March 2007.
60. Bhagwan, J., **Prasad, P.S.**, and Mathur, S. (2007). Investigations for Stabilisation of Land Slide at Sorchen in Bhutan. Proceedings of 13th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Vol1, Part 2, pp. 959-962, 2007.
61. Vittal, U.K.G., **Prasad, P.S.**, Mathur, S and Nanda, P.K. (2006). Instrumentation for monitoring consolidation of marine Clay Deposits – A Case study, Proceedings of International conference on infrastructure development on expansive soils, Erode, Feb 2006, pp. 91 – 97.
62. Kumar, K., **Prasad, P.S.**, Kanaujia, V.K., and Mathur, S. (2006). Geological and Geotechnical investigations of Patalganga Landslide adjacent to NH – 58, Garhwal, Uttaranchal – A Case Study. Proceedings of Indian Geotechnical Conference, Chennai, Dec 2006.
63. Bhagwan, J., Mukherjee, D., **Prasad, P.S.**, and Mathur, S. (2006). Investigations for Stabilisation of Kharbandi Land Slide in Bhutan. Proceedings of Indian Geotechnical Conference, Chennai, Dec 2006.
64. Vittal, U.K.G., **Prasad, P.S.**, and Mathur, S. (2006). Geotechnical properties of Visakhapatnam marine clays. Proceedings of Indian Geotechnical Conference, Chennai, Dec 2006.
65. Vittal, U.K.G., **Prasad, P.S.**, Mathur, S., and Nanda, P. K. (2006). Instrumentation for Monitoring Consolidation of marine Clay Deposits – A Case Study, Published in International Conference on Infrastructure Development on Expansive Soils, Feb 2006, Erode, Tamil Nadu
66. Vittal, U.K.G., **Prasad, P.S.**, and Mathur, S. (2004). Instrumentation of road embankment on soft marine clay – a case study, published in the Indian Geotechnical Conference, Warangal, Dec 2004.
67. **Prasad, P.S.**, Vittal, U.K.G., and Mathur, S. (2003). Some Aspects of Constructing Embankments on Soft Marine Clays’, Published in the seminar on integrated development of rural and arterial road network for socio-economic growth, New Delhi, December 2003.

Academic Pursuits of Dr.P. S. Prasad

As a Associate Professor contribution to AcSIR (Academy of Scientific and Innovative Research)

Teaching the following courses for M.Tech and Ph.D students

- Advanced geotechnical engineering course (3 credits course). ENG(CRRI) 1-457
- Basics of soil mechanic (3+1credits course) (ENG(CRRI) 1 – 469)
- laboratory classes on geotechnical characterization; ENG (CRRI)1-461

Membership in organizational / national / international committees

1. Life member of national Indian geotechnical Society
2. Life member of Indian geotechnical Society (Delhi Local Chapter)
3. Life member of Indian Roads Congress

Major Project Reports Completed

Projects on Ground Improvement Engineering and Erosion Control Measures

1. Utilization of dredged sand as a construction material in road construction in new capital, Amaravati, Andhra Pradesh
2. Design of Remedial Measures for Upheaval of PQC slabs around Monorail Pillars in Mumbai
3. Agro based Geotextile system for efficient road Drainage / Pilot project on construction of Rural roads under PMGSY with Jute geotextiles
4. Design and execution of soil nail wall system for the stabilization of railway embankment for the trenchless crossing of 1700mm Dia, MS pipe below railway tracks near old steel bridge near Yamuna Bazar, Delhi.
5. Stabilization of slope of pile cap and suggestion of river bank protection measures for the construction of PMT bridge at river Ravi, Basohli, Jammu
6. Design of Suitable remedial measures for temporary link road between Lodhrani Kuda to BP 1021
7. Evaluation of Soil Strata for Centre Spine Road near T3 Terminal at IGI Airport.
8. Providing Technological solutions for road construction in Runn of Kutch – BP 1135 to BP 1169 and BP 1175 to G46.
9. Advice regarding construction of perimeter road at civil airport, Pantnagar
10. Economic Evaluation of Geosynthetic Reinforced Wall with different backfill
11. Stabilisation of soil for Parade grounds of Delhi Police training school Jharoda Kalan, Nazafgarh, New Delhi
12. Technical advice for rebuilding of East – West highway damaged by Kosi river breach, Nepal
13. Investigation of four roads in VPT area, Visakhapatnam
14. Embankment design for construction of two lane road with paved shoulder in NH-31 of Khagria-Purnia section (Pasraha Zone) (Km 301+00 to Km 317+00)
15. Instrumentation and Monitoring of Band drains work for development of adequate road connectivity to Visakhapatnam Port
16. Design of embankment using hydraulic fill for widening of M.B. road from ITO chungi to old Yamuna Bridge 4 lane to 8 lanes
17. Design review for the construction of Reinforced soil wall structure for construction of 4 lane By-Pass on

NH-76 at Kota

18. Feasibility study for the Utilisation of Renolith in Road works
19. Ground improvement measures for widening of industrial bye – pass road, Visakhapatnam
20. Detailed investigation and design of high embankment on soft ground for Kalindi Bye-pass from Kalindi colony to Kalindi kunj (Road No : 13A), New Delhi
21. Remedial measures for failure of Reinforced Earth wall at Jabalpur
22. Erosion control measures for slope protection on Road / Embankment at Rann of Kutch, Gujarat
23. Advice regarding repair / preventive measures for flood damages, Indo – Pak Border roads, Gujarat
24. Recommendations for ground improvement at Chennai Bypass road project
25. Design of PMGSY road (Package GJ 1305), Sanghad Village, Anjar
26. Design of Border Road Embankment BP 1169 – BP 1175 & BP 1120 to 1123/1, Rann of Kutch, Gujarat.
27. Design of Remedial Measures for Outward Shifting / Titling of Crash Barrier at Down Ramp of MVLR
28. Design and construction of soil nailed system for the construction of Underpass at railway level crossing No. 156, Sahibabad, U.P
29. Design of Soil Nailing for stabilization of vertical cut slopes for construction of RUB by box pushing method at Apsara border on SBB – Vivek Vihar Section.
30. Design of Soil Nailing for stabilization of vertical cut slopes for construction of road under the approach embankment of bridge by box pushing technique at west end approach of old Yamuna Bridge No. 249, Delhi Shahadra section
31. Design of capillary cutoff and improvement of subgrade layer (Construction of Thanesar Dhand to Khanouri Road)
32. Design review RE wall for Rohtak Bawal Section of NH – 71: Jhajjar Bypass.

Projects on Utilization of Waste and Marginal Materials for Road Works

33. Utilization of industrial wastes / Marginal materials for mechanically stabilized earth wall applications
34. Design of Coal Ash Railway embankment
35. Evaluation of Zydex (Terassil & Zycobond) Nanotechnology with cement in soil stabilization.
36. Advice regarding use of fly ash in road embankments, Delhi State Industrial Development Corporation, Bawana, Delhi
37. Utilisation of Fly Ash and Copper Slag for Road and Embankments – Wastes from Birla Copper Unit at Dahej
38. Design of Approach embankments of Signature Bridge across Yamuna River, Wazirabad, Delhi
39. Utilization of industrial wastes / Marginal materials for mechanically stabilized earth wall applications

Projects on Landslide Investigations and Remediation Measures

40. Feasibility Study on road alignment from km 40.00 to Saser Brangsa
41. Designing suitable remedial measures for sinking / landslide affected stretches in NH – 54. (from Jatinga junction to Harangajao)
42. Detailed geotechnical investigation and design of suitable measures for landslide control
43. Validation of Slope Protection Works of Zirakpur-Parwanoo Four Laning Project (NH – 22)
44. Development of Management System for maintenance planning & budgeting of High Speed Corridors

(Supra Institutional Project)

Sub module: Study of land slide problem along High speed Corridors

45. Site Stabilisation for Platform at Digilipur (North Andaman)
46. Field investigation and design of remedial measures of Lukhbir slide, Sikkim
47. Guidelines on management of landslides on Indian roads and highway
48. Stability of slope and stability of foundation for the construction of buildings at coast guard campus – Port Blair
49. Investigation and remedial measures for slides occurred at the stretches km 162, 175, 179, 180 & 221.80 on road Dimapur – Kohima – Mao – Maram (DKMM – NH -39)
50. Slope stabilization works at IIRS Campus, Dehradun
51. Investigation of Landslide at Kaliasaur on National Highway 58 , Uttaranchal
52. Investigation and remedial measures for slides occurred at the stretches km 162, 175, 176.10, 180 & 221.80 on road Dimapur – Kohima – Mao – Maram (DKMM – NH -39)
53. Prevention of Unstable Cut Slopes along Approach Roads to Access Railway Line & Stabilisation of the Proposed Dumping Site, Jammu
54. Investigation regarding realignment of Hill top road at Simhachalam Hill, Visakhapatnam
55. Investigation, instrumentation and monitoring of land slide at Patalganga, Garhwal, Uttaranchal
56. Study of land slide and rock falls on Mumbai – Pune expressway
57. Investigation and Reconstruction of suitable corrective measures for prevention of road cut slope along with access road from Naihar village to bridge, Koldam.
58. Design of remedial measures for Mao Landslide at km 214.240 on NH-39, Nagaland
59. Land slide investigation and remedial measures for stabilization of slope at km 45 on NH 150, Khawruhlian, Mizoram
60. Landslide Investigations on Phuentsholling – Thimpu Road, Bhutan
61. Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE)
62. Task Title: Landslide hazard information system and design of cost effective measures for landslide control

Projects on Technical Audit / Quality Inspection of Road Projects

63. An Independent review of Signature Bridge project for technical and contractual issues
64. Performance Audit of NHAI road projects under Public Private Partnership (PPP) for
 - (a) Kagal- Satara BOT project (Km 592.240 to 725km), NH – 4, Maharashtra
 - (b) Tuni – Anakapalli, BOT (km 750 to km 799), NH – 5, Andhra Pradesh
65. Quality inspection of PMGSY roads
66. Quality control of Master Plan Roads in Dwaraka – strengthening of the existing two lanes carriageway, constructing additional four lanes, service road, foot path, drainage, C.D works and fixing kerb stones, constructing bridges & culverts, etc.,