

# List of Papers Published in Conferences/Workshop

## NATIONAL CONFERENCES

1. **Shilpa Pal**, A.D. Pandey and D.K. Paul (2006). “Dam Foundation Interaction Studies – A Review,” Proceedings of the National Conference on Earthquake Disaster: Technology and Management, Allahabad, India, February 11-12, Paper No. IV-28-32.
2. **Shilpa Pal**, D.K. Paul and A.D. Pandey (2006). “Influence of Foundation Discontinuities on a Concrete Gravity Dam,” Proceeding of the Workshop on Earthquake Engineering for Teachers, Roorkee, India, August 18-19, Pg. 75-86.
3. D.K. Paul, A.D. Pandey. and **Shilpa Pal** (2007). “Influence of Dam Foundation Discontinuities on the response of Concrete Gravity Dam,” Proceeding of NCFRS – 2007, Pg 31-36, May 23-24, Roorkee.
4. **Shilpa Pal**, D.K.Paul, A.D.Pandey (2007), “Effect of Discontinuities on a Concrete Gravity Dam,” Proceedings of RTGSE – 2007, Pg 265-270, Dec 22-23, Jaipur.(paper presented)
5. **Shilpa Pal**, D.K. Paul (2008). “Modeling Failure Mechanism to explain Rock Slope Stability,” Proceeding of Landslide Management – Present Scenario & Future Direction, Feb 10-12, 2008, CBRI, Roorkee.(paper presented)
6. Shilpa Pal (2012), “Stability Analysis of Rock Slope under Blasting,” Proceedings of the 2nd National Conference on Trends and Recent Advances in Civil Engineering, 27<sup>th</sup> September 2012, Pg 36-39, ISBN: 978-93-81583-65-4.
7. H. Bhatia, A. Chaurasia, **Shilpa Pal**, S.S. Patel (2016), “Effect of Masonry Infill on RC Buildings,” Role of Civil Engineering in Nation Building (RCNB-2016), 16<sup>th</sup> & 17<sup>th</sup> April, Roorkee. (proceedings not published)
8. Sameer Vyas, Neetu Singh, Mohmmad Sameer, **Shilpa Pal** (2017), “Development of Fly ash based Green Concrete using Nano- Silica,” Proceeding of poster abstracts, Nano India 2017, 15-16<sup>th</sup> March 2017, New Delhi.

## INTERNATIONAL CONFERENCES / CONGRESS

1. D.K. Paul and **Shilpa Pal** (2006). “Seismic Stability of Cracked Koyna Dam,” Proceeding of 2<sup>nd</sup> International Congress on Computational Mechanics and Simulation, Guwahati, India, 8<sup>th</sup> -10<sup>th</sup> Dec 2006, ISBN: 8189866184, 8189866168, 9788189866181.
2. **Shilpa Pal**, D.K. Paul and A.D. Pandey (2006). “Dynamic Analysis of Cracked Concrete Gravity Dam,” Workshop on Seismic hazard and Risk Assessment, New Delhi, March 18-19, SHRA-05.
3. **Shilpa Pal**, D.K. Paul and A.D. Pandey (2006). “Case Studies of Dam Failures: A Geological Insight,” Workshop on Seismic hazard and Risk Assessment, New Delhi, March 18-19, SHRA-09.
4. **Shilpa Pal**, N.V.V Raghvan, D.K. Paul (2006). “3-D Analysis of Koyna Dam Using DEM,” Workshop on Seismic hazard and Risk Assessment, New Delhi, March 18-19, SHRA-15.
5. Tewdros Mulat, Nand K. Kolpate, **Shilpa Pal**, D.K. Paul (2006). “Seismic Response of Tunnels in Fractured Rock Mass using DEM,” Workshop on Seismic hazard and Risk Assessment, New Delhi, March 18-19, Pg. SHRA-06.
6. N. Kolpate, T. Mulat, **Shilpa Pal**, D.K. Paul (2006). “Seismic Response of Underground Cavities in Jointed Rock Mass using DEM,” Workshop on Seismic hazard and Risk Assessment, New Delhi, March 18-19, Pg. SHRA-07.
7. R.K. Bhasin, A.M. Kaynia, D.K. Paul, Y. Singh and **Shilpa Pal** (2006). “Effect of Seismicity on Rock Support in Tunnels of Different Sizes,” Workshop on Seismic hazard and Risk Assessment, New Delhi, March 18-19, Pg. SHRA-13.
8. **Shilpa Pal**, D.K.Paul, A.D.Pandey, Rajinder Bhasin and Amir M. Kaynia (2006). “Effect of Discontinuities on the seismic response of Koyna Dam,” Proceeding of 13 SEE, Pg: 1137-1146, Dec. 18-20, Roorkee, ISBN:81-88901-25-3.

9. R.K.Bhasin, Amir. M.Kaynia, D.K.Paul,Y.Singh, **Shilpa Pal** (2010), “Seismic Behaviour of Rock Supports in Tunnels,” Proceeding of 13 SEE, Pg: 1098-1105, Dec. 18-20, Roorkee, ISBN:81-88901-25-3.
10. **Shilpa Pal**,R.K. Bhasin, Amir M. Kaynia, D.K. Paul (2010), “Stability Analysis of a Landslide Using Distinct Element Method, “14SEE, 17-19 December 2010, Roorkee, Pg No. 1359-1372, ISBN:88901-42-3.
11. **Shilpa Pal**, D.K Paul. And A.D. Pandey(2010), “Effect of Discontinuities on the Response of a Concrete Gravity Dam,” 14SEE, 17-19 December 2010, Roorkee, Pg No. 1434-1448, ISBN:88901-42-3.
12. R.K. Bhasin, M. Abokhalil, Amir M. Kaynia, K. Hoeg, D.K. Paul and **Shilpa Pal** (2010), “Numerical Simulations of Earthquake Effect in Underground Structures,” 14SEE, 17-19 December 2010, Roorkee, Pg No. 1384-1394, ISBN:88901-42-3.
13. **Shilpa Pal**, D. K. Paul(2013), “ Influence of Dam and Foundation Discontinuities using Discountinuum Approach – A Case Study,” Proceedings of Seventh International Conference on Case histories in Geotechnical Engineering, 3.76(a), May 2013, USA.(Paper presented)
14. Abhishek Singh and Shilpa Pal(2014), “Shear Seam in Dam Foundation System,” Proceedings of International Association for Mathematical Geosciences - Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment, pp 513-521, 17<sup>th</sup> – 20<sup>th</sup> October 2014, ISBN: 978-93-81891-25-4.
15. Shubham Kumar, **Shilpa Pal**, H.C. Arora (2016), “Shear Deformability Characteristics of FRP (Fibre-Reinforced Polymer) Strengthened RC Beam,” Proceedings of International Conference on Futuristic Trends in Engineering, Science, Humanities and Technology, 23-24 Feb 2016, Pg. No. 5- 10, Gwalior,ISBN:978-93-85225-55-0.
16. Tushar Bansal, **Shilpa Pal**, Siddharth(2016), “Performance of Self-Compacting Concrete Containing Fly Ash and Alccofine Mineral Admixture as a Partial Replacement of Cement,” Proceedings of International Conference on Trends and Recent Advances in Civil Engineering, Pg 558-567, 11-12<sup>th</sup> August 2016, India, ISBN:978-93-86238-00-9.

17. **Shilpa Pal**, Dipti Singh, Varun Kumar(2017), “Hybrid SOMA: A Tool for Optimizing TMD,” Advances in intelligent systems and computing, Proceedings of Sixth International Conference on Soft Computing for Problem Solving (Springer), Vol. 546(1), pp. 35-41, 2017, ISSN : 2194-5357/ISBN 978-981-10-3321-6.
18. Piyush Vidyarthi, Dipti Singh, **Shilpa Pal**, and Seema Agrawal(2017), “Cost Optimization of 2-Way Ribbed Slab Using Hybrid Self Organizing Migrating Algorithm,” Advances in intelligent systems and computing, Proceedings of Sixth International Conference on Soft Computing for Problem Solving (Springer), Vol. 547(2), pp. 30-37, 2017, ISSN : 2194-5357/ISBN 978-981-10-3321-6.
19. Aditi Singh, **Shilpa Pal**, D.P. Kanungo, N. Pareek (2017), “An Overview of Recent Developments in Landslide Vulnerability Assessment-Presentation of a New Conceptual Framework.” Proceedings of WLF 2017: Advancing Culture of Living with Landslides, Springer, Cham Vol. 2, pp 795-802, ISBN: 978-3-319-53497-8.
20. Sachin Tiwari, **Shilpa Pal**, Rekha Puria and Vikrant Nain (2017), “A Review on Biofortified Self-Healing Concrete,” Proceedings of International Conference on Advances in Construction Materials and Systems, Vol. 2, Pg 91-100, ISBN: 978-2-35158-194-0.(paper presented by Sachin Tiwari)
21. Yuddhveer Singh, Mahesh K. Jat and **Shilpa Pal** (2017), “Impact of Land Use/ Land Cover Changes on Watershed Response,” Proceedings of Hydro-2017 - 22<sup>nd</sup> International Conference on Hydraulics, Water Resources and Coastal Engineering, 21<sup>st</sup> -23<sup>rd</sup> December 2017, Pg. No.2081-2087. (paper presented by Yuddhveer)
22. Yuddhveer Singh, Mahesh K. Jat and **Shilpa Pal** (2017), “Hydrological Modelling using Storm Water Management Model, “Proceedings of International Conference on Geo-Spatial Technologies for natural resources Management & Climate Change, 21-22 December 2017. (under publication, paper presented by Yuddhveer)
23. Aditi Singh, **Shilpa Pal**, Debi P. Kanungo (2017), “Site-specific vulnerability assessment of buildings exposed to rockfalls,” Proceedings of 1<sup>st</sup> International

- Conference on the Energy, Materials and Information Technology (ICEMIT'17), 23rd – 24th December 2017, India. (paper presented by Aditi Singh, under publication)
24. **Shilpa Pal**, Sachin Tiwari, Khushboo Katyal, Aditi Singh(2017), “Effect of Polymer modification on Structural and Mechanical Properties of Concrete using Epoxy Emulsion as the modifier,” Proceedings of 1<sup>st</sup> International Conference on the Energy, Materials and Information Technology (ICEMIT'17), 23rd – 24th December 2017, India. (paper presented by Aditi Singh, under publication)
  25. Dipti Singh, **Shilpa Pal**, Abhishek Singh (2017), “Seismic Analysis of Multistoried Building with Optimized Damper Properties,” Proceedings of International Conference in Operations Research and Statistics (RTORS 2017), 28<sup>th</sup> -29<sup>th</sup> Dec. 2017. (publication of proceedings in process)
  26. **Shilpa Pal**, Rohit Kumar Gupta, Visalakshi T. (2018), “Experimental Investigation of Fly Ash Blended Concrete with Recycled Coarse Aggregates,” Presented as Keynote paper in 02<sup>nd</sup> International Conference on Advances in Concrete, Structural & Geotechnical Engineering, 26<sup>th</sup> -28<sup>th</sup> Feb 2018 by Prof. T. Visalakshi.
  27. **Shilpa Pal**, Abhishek Pal, T.Visalakshi (2018), “Mechanical Properties of Brick Aggregate Concrete with Silica Fume,” Proceedings of 02<sup>nd</sup> International Conference on Advances in Concrete, Structural & Geotechnical Engineering, 26<sup>th</sup> -28<sup>th</sup> Feb 2018, Pg. 703-708, Pillani, India, ISBN: 978-93-87471-69-6. (paper presented)
  28. Sachin Tiwari, **Shilpa Pal**, R.P.Pathak (2018), “Structural Health Monitoring and Chemical Analysis of Concrete Structures,” Proceedings of International Conference on Advances in Construction Materials and Structures, 07<sup>th</sup> – 08<sup>th</sup> March 2018, Pg No. 8, IIT Roorkee.(paper presented)
  29. V.V.L.Kanta Rao, **Shilpa Pal**, Arun Kumar Kashyap, Tushar Bansal (2018), “Development of High Early Strength High Volume Ash Concrete using Micro-Fine Slag,” Proceedings of International Conference on Advances in Construction Materials and Structures, 07<sup>th</sup> – 08<sup>th</sup> March 2018, Pg No. 120, IIT Roorkee.(paper presented)

30. Tushar Bansal, **Shilpa Pal**, Jaya Maitra(2018), “Effect of Alccofine and Metakaolin on the Performance of SCC,” 1st International Conference on New Frontiers in Engineering, Science & Technology, New Delhi, India, January 8-12, 2018, Pg 141-146, ISBN: 978-93-86238-41-2.(presented by Tushar Bansal)
31. Abhishek Singh, **Shilpa Pal**(2018), “Strength Development on Partial Replacement of Cement by Fly Ash and Alccofine,” 1st International Conference on New Frontiers in Engineering, Science & Technology, New Delhi, India, January 8-12, 2018, Pg 126-130, ISBN: 978-93-86238-41-2.(paper presented)
32. T.Bansal, Shubhranshu, S.Bahri, T.Visalakshi, **Shilpa Pal** (2018), “Corrosion Assessment in Rebars of Normal and Geopolymer Concrete using Piezo Sensors,” Concorn2018, 30<sup>th</sup> Sept – 3<sup>rd</sup> October 2018. (Accepted)
33. **Shilpa Pal**, Ajay Patel, R. K. Garg, “Vibration Based Damage Detection and Analysis of a R.C.C. Building” Communicated in 16 SEE, December 2018.
34. **Rajeeb Kumar, Shilpa Pal, Neelesh Jadaun, Rohit**, “Performance of Polymer Treated Recycled Concrete Aggregate under Different Curing Condition of Concrete,” Communicated in UKIERI Concrete Congress, 5<sup>th</sup> -8<sup>th</sup> March 2019.

## INTERNATIONAL JOURNALS

1. **Shilpa Pal**, D.K.Paul and A.D.Pandey (2008). “Seismic Stability Analysis of the Top Block in a Cracked Dam”, International Journal of Dam Engineering, Vol X, IX Issue 1, June 2008, Pg 39-56, ISSN:0-617-00563X.
2. **Shilpa Pal**, Amir M. Kaynia, Rajinder K. Bhasin and D.K. Paul (2011), “Earthquake Stability Analysis of Rock Slopes - A Case Study,” International Journal of Rock Mechanics and Rock Engineering, DOI 10.1007/s00603-011-0145-6, ISSN: 0723-2632.(Elsevier- SCI, IF:2.905)
3. Naveen Pareek, **Shilpa Pal**, M.L. Sharma, M.K.Arora (2013), “Study of effect of seismic displacement on landslide susceptibility zonation (LSZ) in Garhwal Himalayan region of India using GIS and remote sensing techniques,” Computer & Geosciences, Pg 50-63, ISSN:0098-3004. (Elsevier SCI, IF 2.533)

4. Naveen Pareek, Mukat Lal Sharma, Manoj Arora, **Shilpa Pal** (2013), “Inclusion of earthquake strong ground motion in a GIS based Landslide Susceptibility Zonation (LSZ) in Garhwal Himalayas,” *Natural Hazards*, 65(1), 739-765, ISSN: 0921-030X. (Springer - SCIE, IF-1.833)
5. Naveen Pareek, **Shilpa Pal**, Amir. K Kaynia, M.L.Sharma (2014), “Empirical – based seismically induced slope displacements in a geographic information system environment: a case study”, *Georisk*, 8(4), ISSN:1749-9518.(Taylor and Francis, emerging SCI)
6. Sachin Tiwari, **Shilpa Pal**, R.P. Pathak (2015), “Structural Health Monitoring of a Concrete Structures in Gautam Buddha University,” *International Journal of Engineering Sciences & Research Technology*, 124-133, 4(4) ISSN: 2277-9655. (UGC approved Journal)
7. V.Vashishth,, **Shilpa Pal**, N.V.Mahure, M. Vyas, & P. Sharma (2015), “Impact of High temperature on Multiblended Concretes,” *International Research Journal of Engineering and Technology*, Vol 2, Issue 2, 563-570, e-ISSN: 2395 -0056, p-ISSN: 2395-0072. (Google Scholar)
8. T.K. Gondwal, **Shilpa Pal**, Naresh Gupta (2016), “High Volume Fly ash concrete blended with Micro-Silica: A review on strength based application in building and road materials,” *International Journal of Emerging Technologies and Advanced Engineering*, Vol. 6, Issue 2, ISSN 2250-2459.(UGC approved Journal)
9. Mohammad Sameer, Sameer Vyas, **Shilpa Pal**, Neetu Singh (2017), “Effect of nano-silica on strength and durability of geo-polymer concrete,” *International Journal of Scientific Development and Research*, Vol 2, Issue 5, Pg 154-172, ISSN: 2455-2631. (Indexed in Thomson Reuter)
10. Amer Hassan, **Shilpa Pal**(2017), “ Performance Analysis of Base Isolation & Fixed – Base Buildings,” *International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE)*, Vol 2, Issue 3, Pg 152-157, March 2017,ISSN (Online) 2456-1290. (IF = 3.8, Indexed in Thomson Reuter)
11. Aditi Singh, D.P. Kanungo & **Shilpa Pal** (2018), “A modified approach for semi-quantitative estimation of physical vulnerability of buildings exposed to different landslide intensity scenarios, *Georisk: Assessment and Management of Risk for*

- Engineered Systems and Geohazards, ISSN: 1749-9518 (Print) 1749-9526 (Online), DOI: 10.1080/17499518.2018.1501076 (ESCI).
12. Amer Hassan, **Shilpa Pal** (2018), “Effect of soil condition on seismic response of Isolated Base Buildings,” International Journal of Advanced Structural Engineering, ISSN:2008-3556(Print) 2008-6695(Online), doi.org/10.1007/s40091-018-0195-z. (Scopus indexed journal)
  13. Yuddhveer Singh, Mahesh K. Jat and **Shilpa Pal** (2018), “Hydrological Implications of Land Use/ Land Cover changes: A Case Study of Delhi,” Journal of Emerging Technologies and Innovative Research, Volume 5(8), Pg 951-962. (ISSN-2349-5162). (UGC approved Journal)
  14. Deepali Patel, **Shilpa Pal**, Dipti Singh, Sachin Tiwari (2018), “Analytical Optimization of 400kV double circuit quad-conductor transmission line tower,” International Journal of Applied Engineering Research. (under publication, UGC approved journal)
  15. **Shilpa Pal**, Amer Hassan and Dipti Singh (2018), “Optimization of Base Isolation Parameters Using Genetic Algorithm,” Journal of Information and Optimization Sciences. (accepted, ESCI)

## NATIONAL JOURNALS

1. D.K. Paul and **Shilpa Pal** (2007), “Numerical Modelling of Earthquake-Triggered Landslide in Jointed Rock Slope,” Disaster & Development, Journal of NIDM, Pg No. 25-33, Vol. 1, No. 2, New Delhi, ISSN 0973 - 6700.
2. **Shilpa Pal**, A.M. Kaynia, R Bhasin. and,D.K. Paul (2011), “Distinct Element Stability Analysis of Surbhee Resort Landslide in Garhwal Himalayas, India,” Disaster & Development, Journal of NIDM, Pg No. 175-192, Vol. 5, No.1 & 2 April & November, New Delhi, ISSN 0973-6700.
3. **Akshay Kumar, Shilpa Pal(2015)**, “A Parametric Study and Analysis of Waffle and Solid Slab,” Journal of Civil Engineering and Environmental Technology, Vol 2, No. 8, April – June 2015, Pg 686-688, ISSN: 2349-879X.
4. Vipin Mahadevan, Kshitij Bihani, **Shilpa Pal** (2015), “Effect of Width variation of GFRPC laminates on flexural strength of RC Beams,” Journal of Civil Engineering



- and Environmental Technology, Vol 2, No. 6, April – June 2015, Pg 540-544, Print ISSN :2349-879X.
5. R. Saxena, A. Khushwaha, & **Shilpa Pal (2015)**, “Effect on Compressive Strength of Concrete with Partial Replacement of Sand using Iron Slag,” Journal of Civil Engineering and Environmental Technology, Vol 2, No. 6, April – June 2015, Pg 510-513, ISSN: 2349-879X.
  6. A. Khushwaha, R. Saxena, & **Shilpa Pal (2015)**, “Effect of Titanium Dioxide on the Compressive Strength of Concrete,” Journal of Civil Engineering and Environmental Technology, Vol 2, No. 6, April – June 2015, Pg 482-486, ISSN: 2349-879X.
  7. Aditi Singh & **Shilpa Pal (2015)**, “Lightweight Concrete a Boon in Civil Engineering - Review,” Journal of Civil Engineering and Environmental Technology, Vol 2, No. 5, April – June 2015, Pg 451-455, ISSN: 2349-879X.
  8. P. Saxena, A. Chauhan, D. Teotia, **Shilpa Pal (2015)**, “ Review paper on Structural Health Monitoring: Its benefits and scope in India,” Journal of Civil Engineering and Environmental Technology, Vol 2, No. 2, Jan - March 2015, Pg 109-112, ISSN: 2349-879X.
  9. Shivam Kasana, **Shilpa Pal**, Dipti Ranjan Sahoo(2015), “Seismic Vibration Control of Multi-Story Buildings using Tuned Mass Dampers,” Journal of Civil Engineering and Environmental Technology, Vol 2, No. 16, October – December 2015, Pg 84-87, ISSN: 2349-879X.
  10. Singh, Aditi., **Pal, Shilpa(2016)**,” Investigation on lightweight aggregate concrete using pumice as partial replacement of coarse aggregate,” The Indian Concrete Journal, Vol. 90, Issue 1, pp.32-38.