



**Dilip A Patel**

*B.E., M. Tech., LL.B., Ph.D.*  
*Lead Auditor(OHSAS 18001)*

**Affiliation**

Assistant Professor, Civil Engineering Department, Sardar Vallabh National Institute of Technology (SV-NIT) Surat (C/o. MHRD, Govt of India, New Delhi), Ichchhanath, Surat-395007, Gujarat, India

Email: dap@ced.svnit.ac.in (M):+91 99982-77731 (O): +91 261 2201823

**Research Interest**

Construction Project Management, Safety Management (Construction, Road and Fire), Construction Technology, Valuation, Construction Laws

**Academic History**

- Doctor of Philosophy, Department of Civil Engineering, Indian Institute of Technology Delhi (July 2012 – July 2015)
- Bachelor of Law (General), V.T. Choksi Sarvajanic Law College, Veer Narmad South Gujarat University Surat Gujarat (June 2010 - May 2012)
- Master of Technology in Construction Project Management, Centre for Environmental Planning & Technology (CEPT), Ahmedabad (June 2001 - June 2003)
- Bachelor of Civil Engineering, Government Engineering College (GEC) Modasa, Gujarat (July 1997 - June 2001)

**Professional Course**

- Lead Auditor OHSAS 18001, Bureau of Indian Standards, Govt. of India, New Delhi (March 2014)

**Career History**

- Assistant Professor, Civil Engineering Department, S. V. National Institute of Technology Surat, Gujarat (Sep. 2007 - continue)
- Assistant Professor, Civil Engineering Department, Government Polytechnic Palanpur, Gujarat (March 2005 – Sep. 2007) (through Gujarat Public Service Commission(GPSC), Ahmedabad)
- Project Executive, Electro Steel Infrastructure Services (EIS), Electro Steel Casting Ltd (ECL). Kolkata (June 2003 - March 2005) (through campus placement)

### **Relevant Scholarship and Award**

- A Research Scholarship awarded by Ministry of Urban Development(MoUD), New Delhi through Transportation Research and Injury Prevention Programme (TRIPP), IIT Delhi for year 2012-13, 2013-14 and 2014-15
- A Research Scholarship awarded through Quality Improvement Programme (QIP), AICTE, New Delhi for year 2012-13, 2013-14 and 2014-15
- A Fellowship awarded by DGUV Germany to participate XX World Congress on Safety and Health at Work Place at Frankfurt, Germany during 24-27 August, 2014

### **Publications (International-National Journals)**

1. Patel, D. A. and Jha, K. N (2015). "Neural Network Model for the Prediction of Safe Work Behavior in Construction Projects." *Journal of Construction Engineering and Management*, ASCE, DOI: 141(1), 04014066 (Impact factor: 0.84)
2. Patel, D. A. and Jha, K. N (2015). "A Neural Network Approach for Prediction of Safety Climate." *Journal of Management in Engineering*, ASCE, DOI: 30(6), 05014027 (Impact factor: 1.111)
3. Patel, D. A. and Jha, K. N (2015). "Evaluation of Construction Projects Based on the Safe Work Behavior of Co-employees through a Neural Network Model." *Safety Science*, Elsevier, (*Two rounds of review are completed*) (Impact factor: 1.83)
4. Patel, D. A. and Jha, K. N (2015). "A Framework to Evaluate Construction Project Hazard Using Possibility Approach." *Journal of Construction Engineering and Management*, ASCE, (*Two rounds of review are completed*) (Impact factor: 0.84)
5. Patel, D. A. and Jha, K. N (2015). "Structural Equation Modeling for Relationship Based Determinants of Safety Performance in Construction Projects." *Journal of Management in Engineering*, (*Two rounds of review are completed*)
6. Patel, D. A., Kikani, K. D., Jha, K. N (2015). "Hazard Assessment Using Consistent Fuzzy Preference Relations Approach." *Journal of Construction Engineering and Management*, ASCE, (*One round of review is completed*) (Impact factor: 0.84)
7. Patel, D. A. and Jha, K. N (2015). "An Estimate of Fatal Accidents in Indian Construction" *International Journal of Injury Control and Safety Promotion*, Taylor and Francis (*One round of review are completed*)
8. Vyas, G.S., Patel, D. A. and Jha, K. N. (2015). "Fuzzy Approach for Developing Green Building Rating System– A Case of India." *Journal of Civil Engineering and Management*, Taylor and Francis (*One round of review are completed*)
9. Jha, K.N. and Patel, D.A. (2015). "Cost of Accident: What and Why?" *Industrial Safety Chronicle*, Vol. XLVI, July-Sep.2015, PP.30-33, National Safety Council of India, Mumbai
10. Dhamaniya, A., Patel, D. A. (2011). "Road Traffic Air Pollution Level in Surat City: A GIS Approach." *International Journal of Information Technology and Network Application (IJITNA)*,1(2),59-65.DOI: <http://ijitna.org/abstract/vol1no2-9.htm> (Impact factor: 1.850)
11. Patel, D. A. and Joshi, G. J. (2013). "Selection of a Water Pipe through MADM Approach." *Journal of Construction Management*, NICMAR Pune (ISSN.0970-3675), XXVIII (II), 33-42
12. Patel, D. A. and Modhera, C. D. (2010). "Evaluation of Construction Projects by Earned Value Analysis." *Journal of Construction Management*, NICMAR Pune (ISSN.0970-3675), XXIV (I), 78-88

13. Reddy, S., Patel, D. A. and Jha, K. N. (2010). "Safety Management Systems and Indian Construction Industry." Journal of Construction Management, NICMAR Pune (ISSN.0970-3675), XXV (IV), 18-34
14. Book review- Patel, D. A. (2010) Construction of Project Management by Dr K N Jha , Pearson Education Ltd. India New Delhi, Journal of Construction Management, NICMAR Pune (ISSN.0970-3675)

**Publications (International-National Conference)**

1. Patel, D.A., Jha, K.N. (2014). Prediction of Safety Climate through Neural Network. Paper presented at the International Conference on Construction Research Congress (CRC) Georgia Institute of Technology, Atlanta, USA (19-21 May 2014).Pp.1861-1870
2. Patel, D.A., Vyas, G.S., Jha, K.N. (2014). The Role of Employer in Construction Safety in Context to Indian Legislation. Paper presented at the 3rd International Conference on Construction in Developing Countries (ICCDC III), Bangkok (4-7 July 2012)
3. Vyas, G.S., Patel, D.A., Jha, K.N. (2014). Comparative Study of Rating Systems for Green Building in Developing and Developed Countries. Paper presented at the 3rd International Conferences on Construction in Developing Countries (ICCDC III), Bangkok (4-7 July 2012)
4. Patel, D.A., Jha, K.N. (2012). Evaluation of Construction Projects in Terms of Cost, Schedule and Safety Performance. Paper presented at the CIBW099 International Conference on Modeling and Building Health and Safety, NUS Singapore (10-11 Sep. 2012)
5. Patel, D.A., Jha, K.N. (2012). A Comparative Study of OSHA 1970 and BOCW 1996. Paper presented at the CIBW099 International Conference on Modeling and Building Health and Safety, NUS Singapore (10-11 Sep. 2012)
6. Patel, D.A., Katti, B.K. (2012). Prediction of the Remaining Duration of the Project during Execution of the Project. Paper presented at the International Conference and Workshop on Sustainable Architecture and Urban Design (ICWSAUD 2012), University Sains Malaysia, Penang (3-5 March 2012)
7. Patel, D.A., Mistry, N.J., Dhamaniya, A. (2010). Flood Management in Surat City - Gujarat. Paper presented at the International Congress on Environmental Research (ICER), University of Mauritius, Reduit, Mauritius (16-18 Sep. 2010)
8. Dhamaniya, A., Patel, D.A. (2010). Road Traffic Air Pollution Level in Surat City. Paper presented at the International Congress on Environmental Research (ICER), University of Mauritius, Reduit, Mauritius (16-18 Sep. 2010)
9. Patel, D.A., Katti, B.K. (2012). Evaluation of BRTS Project by Earned Value Analysis Approach. Paper presented at the International Conference on Infrastructure Finance (ICIF), IIT Kharagpur (WB) (3-5 June 2010)
10. Patel, J., Patel, D.A. (2012). Assessment of Fire Safety Management in Urban Area. Paper presented at the National Conference on Technology & Management (NCTM 2012) SPCE, Visnagar (20-21 Jan. 2012)
11. Patel, D.A., Shah, N.C. (2010). Laws and Infrastructure Development. Paper presented at the National Conference on Sustainable Urban Infrastructure Development(SUID), VNIT Nagpur (18-19 Jun. 2010)
12. Patel, D.A., Mandwara, J.P. (2010). Trench Lying by HDD: A Trenchless Method. Paper presented at the National Conference on Emerging Technologies & Applications, BRMIT Jaipur (6th Feb. 2010)

13. Mandwara, J.P., Patel, D.A. (2010). Intelligent Transport System for Improving Urban Public Transport: A Case Study Maisur City. Paper presented at the National Conference on Emerging Technologies & Applications, BRMIT Jaipur (6th Feb. 2010)
14. Kale, G.D., Patel, D.A. (2009). Impact Assessment of Soil Erosion Using Geo-spatial Techniques and RUSLE in a Watershed. Paper presented at the AHI Gujarat Chapter, M.S.University, Vadodara
15. Patel, D.A., Kale, G.D. (2008). Public Private Partnership in Sanitation. Paper presented at the National Conference on SUEIMS 08, SVNIT Surat (27-29 Feb. 2008)
16. Patel, D.A. (2007). Public Private Partnership in Road Safety Management. Paper presented at the National Conference on SUTRIM 07, SVNIT Surat (28-29 Dec. 2007)

### **Dissertation Guided**

- “Analysis of Bus Rapid Transit Project under Execution & Modeling of Project Completion Time: A Case Study” by Mrunal D. Vithalpura, TEP (2008-09)
- “Fuzzy Delay Risk Modeling of Public Private Partnership in Indian Context” by Rinkesh M Rathi, TEP (2010-11)
- “Planning Proposal for Vadodara City based on Quality of Life Index” by Jignesh N Patel, Urban Planning (2011-12)
- “ Highway Construction Project Risk Modeling with Reference to Overburden Cost” by Darshan M Patel, TEP (2011-12)
- “Planning Proposal for Fire Safety Infrastructure Facilities – Special Reference to Surat City” by Jigar Patel, Urban Planning (2011-12)
- “Development of Parking Demand Forecasting Model at Railway Terminal – A Case Study of Surat” by Radhika Marvaniya, TEP (2011-12)

### **Membership**

1. Life Time Membership in National Safety Council of India, Navi Mumbai (LM-GJT-113)
2. Life Time Membership in The Indian Society For Technical Education, New Delhi (ISTE) (LM 57568)
3. Life Time Membership in Operation Research Indian Society, Kolkata (0818/P/09/ML)
4. Life Time Membership in Wind Engineering, IIT Roorkee (459/Life membership)
5. Life Time Membership in Indian Road Congress New Delhi (LM-36815)
6. Life Time Membership in Associate Membership, Institute of Engineers, Kolkata, (AM099128-5)
7. Life Time Membership in Association of Civil Engineers Surat (ICEA /ALM/608/11-12)

### **Industrial Experience**

Company: Electro Steel Infrastructure Services/Electro Steel Casting Ltd., Kolkata  
 Position: Project Executive

1. Project: Water Distribution System, Sewerage Collecting System, and Water Pumping Station in Dhrangadhra, Dist: Surendranagar, Gujarat (Year 2003)  
 Client: Gujarat Urban Development Company Ltd (GUDC), Gandhinagar

- Consultant: Gerzhi Eastern Ltd., Mumbai  
Cost of Project: Rs. Ten Crore approximately
2. Project: Clear Water Transmission & Distribution Mains for Mangalore City (Year 2004)  
Client: Karnataka Urban Infrastructure Development and Finance Corporation Ltd. (KUIDFC)/Mangalore City Corporation (MCC), Mangalore.  
Cost of project: Rs. Eighteen Crore approximately  
Consultant: Dalal Consultant & Engineers Ltd., Mangalore
3. Project: Sufalam-Sujalam Yojana (Year 2004-05)  
Client: GWSSB, Gandhinagar  
Cost of Project: Rs. Fourty Crore approximately  
Consultant: EIL, New Delhi

\*\*\*\*\*