

Bio Data of PANKAJ GOEL

1. Name : PANKAJ GOEL
2. Date of Birth : Sept. 5th 1970
3. Present post : Sr. Technical Officer
4. Academic Qualification



Degree (in reverse order up to degree only)	Class / grade	University	Year of passing	Scholarship / award
M-Tech in Construction Engineering & Management (Materials)	8.9 (Gold Medal)	Indian Institute of Technology Delhi (IIT Delhi)	2011	Gold Medal from IIT Delhi being Topper of M- Tech
B.E. (CIVIL)	1 st Division 76% (with Honors)	Jamia Millia Islamia, New Delhi	2006	1 st Division with Honors

5. Brief description

I am recipient of **“Gold Medal” from IIT Delhi** for being topper of M- Tech batch (in 2010-11) of Construction Engineering and Management (Materials) and also recipient of CRRI outstanding performance award **“Young Technical Officer”** of the year 2008- 09. I am working as Senior Technical Officer in Rigid Pavement Division of CSIR-CRRI since last 18 years and having a wide experience in Civil Engineering Construction Materials exclusively the concrete

pavements materials and involved in many sponsored, R & D and consultancy projects. My professional interest includes evaluating the performance of industrial waste materials as well as by products such as synthetic fiber reinforced concrete, hybrid fiber reinforced concrete, marble slurry dust, wollastonite, phosphor-gypsum, fly-ash, curing compound etc, in the construction of concrete pavements. I was also involved in many Quality Assurance & Quality Control projects of concrete pavements. I have **more than 20 research papers** in my credit those are published in various prestigious journals, seminars and international conferences.

6. Publications and Awards

A. Research Papers & Publications

1. A Singh, R Kumar and P Goel, 2021, “**Factors influencing strength of magnesium oxychloride cement**”, *Construction and Building Materials*, 303 (2021) 124571, pp. 1-6.
2. P Goel and R Kumar, 2021, “**A comparative investigation on the effectiveness of a wax and a resin based curing compound as an alternate of water curing for concrete pavement slab**”, *Proceedings of 12th ICPT 2021, International Conference on Roads and Airfield Pavement Technology, 14-15 July 2021*, Colombo, Sri Lanka.
3. A Singh, R Kumar, and Pankaj Goel, 2021, “**Experimental study on MOC cement based micro crack for repairing of wide cracks in concrete pavement/ slab**”, *Proceedings of 12th ICPT 2021, International Conference on Roads and Airfield Pavement Technology, 14-15 July 2021*, Colombo, Sri Lanka.

4. P Goel, R Kumar, B Bhattacharjee, 2015, **“Performance of synthetic fiber reinforced concrete in the construction of pavements”**, *Indian Concrete Journal*, Vol. 89 (4), April 2015, pp. 52-61.
5. R Kumar, P Goel, R Mathur and B Bhattacharjee, 2014, **“Suitability of Synthetic Fiber for the Construction of Concrete Pavements”**, *Journal of Scientific and Industrial Research*, Vol. (73), July 2014, pp. 448-452.
6. P Goel and R Kumar, 2014, **“Magnetized water: An upcoming Technology for Construction Industry”**, *NBM & Construction World, Construction World*, ISSN 0973-0591, Vol. 19 (12), June 2014, pp. 126-132.
7. P Goel, Rakesh Kumar, B Bhattacharjee and R Mathur, 2014, **“Performance of concrete containing polypropylene multifilament fiber vis-a- vis fibrillated fiber”** *Indian Concrete Journal*, Vol. 88 (6), June 2014, pp. 16-24.
8. R Kumar, R Mathur, A K Misra, and P Goel, 2013, **“Manufacturing of Dry Lean Concrete (DLC) using portland pozzolana cement”**, *NBM & Construction World*, ISSN 0973-0591, Vol. 19 (4), October 2013, pp. 118-124.
9. P Goel, R Kumar, and R Mathur, 2012, **“An Experimental Study on Concrete reinforced with Fibrillated Fiber”**, *SCI Journal of Scientific and Industrial Research*, Vol.71 & 72 (1) Erratum, November 2012, pp. 722-726.
10. R Kumar, P Goel, R Mathur, and B Bhattacharjee, 2013, **“A Laboratory Study on the uses of Synthetic Fiber in Concrete Pavements”**, *Proceedings of ICI International Conference on Trends and Challenges in Concrete Structures*, Ghaziabad, December 2013, pp. 311-320.
11. R Kumar, P Goel and R Mathur, 2013, **“Suitability of concrete reinforced with synthetic fiber for the construction of pavements”**, *Proceedings of Third International Conference on Sustainable Construction Materials and Technologies – SCMT3*, , Kyoto, Japan, August 2013, e197 on CD.

12. R Kumar, P Goel and R Mathur, 2012, **“Conventional Vis-À-Vis Synthetic Fiber Reinforced Concrete for the Construction of Rigid Pavements”**, *Proceedings of International Conference on Fiber Reinforced Concrete- Global Development*, Nagpur-India, February 2012, pp. 112-124.
13. A K Misra, R Mathur and P Goel, 2011, **“Strength of Concrete vs. Grade of Cement”** *NBM Construction World*, ISSN Nos. 0973-0591, Vol. 17 (4), October 2011, pp.122-126.
14. A K Misra, R Mathur, P Goel, 2011, **“Evaluation of suitability of oil well drill cuttings for road making”**, *Journal of Scientific and Industrial Research*, Vol. 70, March 2011, pp. 305-307.
15. M K Singh, P Goel, A K Misra, and R Mathur, 2010, **“Sangmarmar Udyog ke upshisht padarath, Sangmarmar (Marble Slurry Dust) ke Sadak, Tatbandh aur concrete main upyogita”**, Nirman Surbhi Rashtriya Sangoshi, CRRI, New Delhi, 12-13 May 2010.
16. A K Misra, R Mathur, Y V Rao, A P Singh and P Goel, 2009, **“A new technology of marble slurry waste utilization in roads”**, *Journal of Scientific and Industrial Research*, Vol. 69, December 2009, pp. 67-72.
17. A K Misra, R Mathur and P Goel, 2007, **“Wollastonite and Marble Slurry Dust-Inert Mineral Admixtures for cement concrete”**, *Indian Highways (IRC)*, December 2007, pp. 41-46.
18. A K Misra, R Mathur and P Goel, 2007, **“Influence of Wollastonite on the Mechanical Properties of Concrete”**, *Journal of Scientific and Industrial Research*, Vol. 66 (September 2007), pp. 1029-1034.
19. A K Misra, R Mathur and P Goel, 2004, **“Use of Phosphogypsum: An Industrial by product in stabilization of Black Cotton Soil”**, *Journal of Highway Research Bulletin (IRC)*, 70 (November 2004), pp. 65-75.

20. A K Misra, R Mathur, and P Goel, 2003, **“Marble Slurry Waste – A Potential Building Material”**. *Indian Cement Review*, August 2003.
21. A K Misra, R Mathur, and P Goel, 2001, **“Marble Slurry Dust in Roads: An Apt solution for the Industrial waste”**, *Journal of Highway Research Bulletin (IRC)*, 65 (12), (2001), pp. 83-92.

B. Awards

- 1) **“Gold Medal Award”** from IIT Delhi, for being the Topper of M-Tech Batch (2011) in Construction Engineering and Management.
- 2) **“Outstanding Performance Award”** Best Young Technical Officer of CRRRI for the Year 2008-2009.