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# SHIRISH V. DEO

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**Career Objective** Looking forward to be a part of an Institute where my technical knowledge and managerial skills are tested and are further enhanced, in turn contributing to the growth of the institute.

**DOB** 16<sup>th</sup> March, 1978

**Professional experience**

## **March 2009 onwards**

### **National Institute of Technology, Raipur**

**Institute Profile:** The Institute is institute of national importance with deemed university status. It has a vision to contribute to society by research and creating good engineers.

#### **Present Designation: Associate Professor**

##### **Responsibilities:**

- Teaching Advanced Concrete Technology, Construction Management, Quantity Survey and Cost Evaluation, Bridge Engineering, Transportation Engineering I & II, Building Materials.
- Two Ph.D completed
- Supervising seven PhD fellows.
- Associate Dean (P & D)
- Professor In Charge for Estate Office.
- Chairman purchase committee.
- Member of hostel inspection committee, Eclectika venue committee.
- Lab-in charge for concrete technology lab.
- Modernisation of concrete lab with Non-Destructive Testing and other equipments.
- Various other important portfolios in different college committees
- Delivered expert lectures in concrete technology.

## **August 2006 to March 2009**

### **Priyadarshini College of Engineering, Nagpur**

**Institute Profile:** The Institute founded in 1990 is one of the premier institutes with NBA accreditation, Nagpur university permanent affiliation and research centre.

#### **Designation: Lecturer**

##### **Responsibilities:**

- Assistant for Dean Academics
- Teaching Applied Mechanics.
- First year co-in charge
- Member of NBA core Committee
- Lab-in charge for engineering mechanics lab.

- Various other portfolios in different college committees

#### **November 2002 to August 2006**

##### **Visvesvaraya National Institute of Technology, Nagpur**

**Institute Profile:** The Institute is institute of national importance with deemed university status. It has a vision to contribute to society by research and creating good engineers.

##### **Designation: Adhoc Lecturer**

##### **Responsibilities:**

- Teaching subjects like RCC, Pre-stressed concrete, Project Planning and Management, Surveying, Building Design and Drawing and concrete technology.
- Arranging survey camp for IVth sem students.
- Assisting in Examination, Equipment procurements and Refurbishment of the department.

#### **January 2002 to November 2002**

##### **Enviro Geosynthetics, New Delhi**

**Company Profile:** The firm had 15 years experience in consultancy of various Reinforced Earth Projects.

##### **Designation: Design Engineer**

##### **Responsibilities:**

- Design of various reinforced earth projects.
- Supervision of various reinforced earthwork construction in embankments and bridges.
- Successfully managing a team of 3 draftsmen for various projects.

#### **Summary of qualifications**

March 2012 Doctor of Philosophy, from VNIT, Nagpur  
Ph.D

Dec 2001 Birla Institute Of Technology & Science, Pilani

M.E. (Civil) C.G.P.A.- 8.1/10

July 1999 Visvesvaraya Regional College Of Engineering, Nagpur

B.E. (Civil) 65.92%

#### **Area of research**

Structural Design, Use of marginal materials in concrete for their higher utilization.

#### **Research Project**

1. Parametric Study of Eco-friendly Concrete/Composite by Partial Replacement of Sand and Cement with Locally Available Industrial By-products. Sponsoring Agency:- CGCOST.

#### **Google Citations**

##### **All Since 2014**

[Citations](#) 100 91

[h-index](#) 5 5

[i10-index](#) 2 2

12.58 on 06-09-2019

#### **Research Gate Score**

Published on 10-05-19

#### **Patent**

#### **Research Contribution**

- **International journal papers:**

1. Kanthe, V., Deo S. V. and Murmu, M. (2019), "Effect on

- Autogenous Healing in Concrete by Fly Ash and Rice Husk Ash”, Iranian (Iranica) Journal of Energy and Environment 10 (2): pp154-158, June – 2019.
2. Kanthe, V., Deo S. V. and Murmu, M. (2019), “Effect of Fly Ash and Rice Husk Ash as Partial Replacement of Cement on Packing Density and Properties of Cement”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-7, May, 2019 (*Scopus Indexed*).
  3. Palod, R., Deo, S. V. and Ramtekkar, G. (2019), “Utilization of waste from steel and iron industry as replacement of cement in mortars” Vol.:(0123456789) 1 3, Journal of Material Cycles and Waste Management, June 18, <https://doi.org/10.1007/s10163-019-00889-3> (SCI Indexed)
  4. Kanthe, V., Deo S. V. and Murmu, M. (2018), “Effect of fly ash and rice husk ash on strength and durability of binary and ternary blend cement mortar”, Asian journal of civil engineering, 19, pp-963-970 (*Scopus Indexed*)
  5. Kanthe, V., Deo S. V. and Murmu, M. (2018), “Combined use of fly ash and rice husk ash in concrete to improve its properties”, *International Journal of Engineering TRANSACTIONS A: Basics* Vol. 31, No. 7, (July 2018), pp-1012-1019 (*Scopus Indexed*).
  6. Raut, M. and Deo, S. V. (2018), “Use of high volume fly ash on early age shrinkage in concrete for local hot and dry condition”, Journal of engineering science and technology, Vol. 13, No. 7 (2018) pp-2036-2046 (*Scopus Indexed*).
  7. Yadav, N., Deo, S. V. and Ramtekkar, G. (2018), “Workable and robust concrete using high volume construction and demolition waste in sub tropical climate”, International journal of technology, Vol 3, 2018, pp 537-548 (*Scopus Indexed*).
  8. Yadav, N., Deo, S. V. and Ramtekkar, G. (2018), “Internally cured glass fiber reinforced sustainable concrete in subtropical climate – A parametric

- investigation” International Journal of Engineering-Transactions A: Basics 31 (4), 356-363 (Scopus Indexed).
9. Rath, B, Deo, S. V. and Ramtekkar, G. (2017), “Durable Glass Fiber Reinforced Concrete with Supplementary Cementitious Materials”, *International Journal of Engineering (Scopus Indexed)*, Vol-33(7), pp-999-1006.
  10. Kunamineni, V, Murmu, M. and Deo, S. V. (2017), “Bacteria based self healing concrete – A review” Construction and Building materials (SCI Expanded Indexed), 152, 1008–1014.
  11. Raut, M. and Deo, S. V. (2017), “Parametric Study on Production and Utilisation of Fly Ash in India”, International journal of earth sciences and engineering, Vol. 10, No. 3, June 2017, pp-558-562, DOI:10.21276/ijee.2017.10.0313.
  12. Palod, R., Deo, S. V. and Ramtekkar, G. (2017), “Review and suggestions on use of Steel slag in concrete and its Potential use as cementitious component combined with ggbs”, International Journal of Civil Engineering and Technology (**Scopus Indexed**), Vol. 8, Issue 4, April 2017, pp- 1026-1035.
  13. Yadav, N., Deo, S. V. and Ramtekkar, G. (2017), “Mechanism and benefits of internal curing of concrete using light weight aggregates and its future prospects in Indian construction industry”, International journal of civil engineering and technology, Vol. 8, Issue 5, May 2017, pp – 323-334, (Scopus Indexed).
  14. Raut, M. and Deo, S. V. (2017), “A parametric study on effect of fly ash together with fiber for sustainable concrete” , International Journal of Civil Engineering and

Technology (**Scopus Indexed**), Vol. 8, Issue 3, March 2017, pp- 100-110.

15. Patel, G. K. & Deo, S. V. (2016), “Parametric Study of Natural Organic Materials as Admixture in Concrete” International Journal of Applied Engineering Research, Volume 11, Number 9 (2016) pp 6271-6277. (**SCOPUS**)
16. Deo S. V. (2015), “Problems review and suggestions for early high strength, high volume, low lime-fly ash concrete ” European Journal of Environmental and Civil Engineering, DOI: 10.1080/19648189.2015.1053153 (**SCI Expanded**)
17. Deo S.V. (2015), “Mix design approach for high 28 days’ strength, high volume, low lime fly ash concrete” Road Materials and Pavement Design, DOI: 10.1080/14680629.2015.1026381, pp-1-9. (**SCI Expanded**)
18. Deo S.V. and Pofale A.D.(2015), “Parametric Study for Replacement of Sand by Fly Ash for Better Packing and Internal Curing” Open Journal of Civil Engineering, Vol-5, pp-118-130.
19. Deo. S. V. (2014) “Parametric Study of Glass Fibre Reinforced Concrete”, Proceedings of Structural Engineering Convention (SEC), IIT Delhi, December 2014 (Scopus Indexed Book Advances in Structural Engineering: Materials, Volume Three, 1 January 2015, ISBN: 978-813222187-6; 978-813222186-9; DOI: 10.1007/978-81-322-2187-6;) pp-1909-1914.
20. Deo, S. and Nagwani “ Estimating the concrete compressive strength using hard clustering and fuzzy clustering based regression techniques”, The Scientific world journal, vol 2014, Article ID 381549, 16 pages, 2014. Doi:10.1155/2014/381549. (**SCOPUS**)
21. Partial Replacement Of Natural Sand By Fly Ash— A

Solution To Fly Ash Waste Management, Journal of Solid Waste Management, USA, Vol. 38, Number 1, February 2012, pp- 28-37.

22. Comparative Long Term Study of Concrete Mix Design Procedure for Fine Aggregate Replacement with Fly Ash by Minimum Voids Method and Maximum Density Method, Korean Society of Civil Engineers Journal, Korea, Vol. 14, Number 5, September 2010, pp-759-764. **(SCI Expanded)**

▪ **National journal papers**

1. Palod, R., Deo, S. V. and Ramtekkar, G. (2016), "Preliminary Investigation on Steel Slag: Production, Processing and Cementitious Properties", Recent Trends in Civil Engineering & Technology, Vol. 6, Issue 2, pp- 17-22.
2. Patel, G. K. & Deo, S. V. (2016), "Effect of natural organic materials as admixture on properties of concrete", Indian Journal of Science and Technology, Vol 9(37) DOI: 10.17485/ijst/2016/v9i37/93541, October 2016.
3. Rath, B, Deo, S. V. & Ramtekkar, G.(2016), "A study on early age Shrinkage behaviour of cement paste with binary and ternary combination of fly ash and pond ash", Indian Journal of Science and Technology, Vol. 9(44), November 2016.
4. Sharma, H., Govardhan & Deo, S. V., " Earthquake risk reduction development and disaster management programme in India", International journal for scientific research and development, Vol-2, Issue-11, Jan 2015, pp-258-272.
5. Rath, B. , Deo, S. V. & Ramtekker, G., "Reducing the Life Cycle Cost of Reinforced Concrete Structures by Using Fiber in Concrete", i-manager's Journal on Civil Engineering, Volume: 4 No. 3 Issue : Jun-Aug 2014 pp- 1-9.

6. A Study of Fine Aggregate Replacement with Fly Ash: An Environmental Friendly and Economical Solution, Journal of Environmental Science and Engineering, New Delhi, Vol. 52, No. 4, October 2010, pp-373-378.
7. High Strength Concrete with Replacement of Natural Sand by Fly Ash for better packing, Civil Engineering and Construction Review, New Delhi, Vol. 23, August 2010, pp-68-75.
8. Comparative study of Partial Replacement of natural sand by fly ash in Ordinary Portland Cement & Portland Pozzolana Cement mortar mixes, Structural Engineering Journal, IUP Chennai, Vol. IV No. 1, January 2011, pp-27-41.

▪ **International Conferences**

1. Deo, S. V. (2017), “Effect of agricultural waste (RHA) on packing density and water film thickness of concrete”, International Conference on Energy, Environment and Economics, (ICEEE 2017) Edinburgh, 11<sup>th</sup> to 13<sup>th</sup> December, 2017, pp-76-82.
2. Kanthe, V., Deo S. V. and Murmu, M. (2017), “Use of mineral admixtures in concrete for sustainable development”, Internal conference on recent trends in civil engineering, science and management, GGSCERC, Nashik, 24-26 March 2017.
3. Patel, G. K. and Deo, S. V., “Parametric study of low cost mortar”, Proceedings of International conference on Civil, Mechanical and Environmental Engineering Technologies, February 26-27, 2016, SVS College of Engineering, Coimbatore, India.
4. Yadav, N., Deo, S. V. and Ramtekkar, G. “Internal curing using secondary materials driving profitability and sustainability in producing concrete” Proceedings of UKIERI

- Concrete Congress - Concrete Research Driving Profit and Sustainability, November 2-5, 2015, NIT Jalandhar, India, pp-708-716.
5. Raut, M. and Deo, S. V. "A review on effect of fly ash and fibers on shrinkage cracking and durability of concrete" Proceedings of UKIERI Concrete Congress - Concrete Research Driving Profit and Sustainability, November 2-5, 2015, NIT Jalandhar, India, pp- 748-771.
  6. Rath, B., Deo, S. V. and Ramtekkar, G. "A review on possibility of sustainable engineered cement concrete" Proceedings of UKIERI Concrete Congress - Concrete Research Driving Profit and Sustainability, November 2-5, 2015, NIT Jalandhar, India, pp- 2349-2361.
  7. Sharma, H., Bhatt, G. and Deo, S. V., "Current Status in the Development of Risk Reduction in India" Proceedings of International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014) December 12-14, 2014, MNNIT Allahabad, India, paper id- RTCCE-14/27.
  8. Sharma, H., Bhatt, G. and Deo, S. V., "A Review on Seismic Performance and Design of High Rise Building" Proceedings of International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014) December 12-14, 2014, MNNIT Allahabad, India, paper id- RTCCE-14/57.
  9. "Parametric Study of Glass Fibre Reinforced Concrete", Proceedings of the International Conference on Chemical, Biological and Environmental Sciences (ICCBSE 2014), 15-16 December 2014, Pattaya, pp-70-72.
  10. A Review of High Volume Low Lime Fly Ash Concrete, Proceedings of the International Conference on Biological, Civil and Environmental Engineering 17-18 March 2014, Dubai, pp-62-66.
  11. Shear strength improving of RCC structures by steel fibres-A



review, Proceedings of the fourth international FIB congress 2014, Mumbai, 10th to 14th Feb 2014, pp-791-795.

12. Fly Ash Waste management by Replacement of Natural Sand by Fly Ash, Proceedings of The 3rd Asian Conference on ECSTASY in Concrete, Chennai, 5th to 9th December, 2010 pp-657-666.
13. Effect of Fine Aggregate Replacement with Low Lime Unprocessed Fly Ash on Compressive Strength and Flow Properties of Cement Mortar, Proceedings of International Conference on Sustainable Habitat, CIT, Coimbatore, 3rd to 5th January-2008, pp 49.1-49.10.

▪ **National Conferences**

1. Palod, R., Deo, S. V. and Ramtekkar, G. (2017), “Parametric study of steel slag powder as cementitious material on cement mortars”, Urbanisation challenges in emerging economies, New Delhi, 12-14 December 2017
2. Kanthe, V., Deo S. V. and Murmu, M. (2017), “Review on the use of industrial and agricultural by-product for making sustainable concrete”, Urbanisation challenges in emerging economies, New Delhi, 12-14 December 2017
3. Rath, B., Deo, S. V. and Ramtekkar, G., “Pond ash: a sustainable Building material for smart Cities”, Proceedings of National Conference on Advances in Construction Technology and Management, VNIT Nagpur, 19<sup>th</sup> - 20<sup>th</sup> February 2016, pp-123-131.
4. Palod, R., Deo, S. V. and Ramtekkar, G., “Preliminary investigation on steel slag: production, processing and cementitious properties”, Proceedings of National Conference on Advances in Construction Technology and Management, VNIT Nagpur, 19th -20th February 2016, pp-209-218.
5. Green Concrete for Structural Sustainability with

	<p>Replacement of Natural Sand By Fly Ash, Proceedings Of ICI National Seminar On Green Structures For Sustainability, Allahabad, 10th &amp; 11th October-2009, pp- II-7-II-14.</p>
	<p>6. Comparative Compressive Strength Development of Ordinary Portland Cement and Portland Pozzolana Cement Mortar with and without Replacement of Natural Sand by Fly Ash, in proceedings of National Conference on Emerging Trends in Civil Engineering for Infrastructure Development at NIT, Raipur, 15-16 February-2008, pp-62-72.</p>
	<p>7. Investigation in to Effects of Fine Aggregate Replacement with Low Lime Unprocessed Fly Ash on Different Properties of Cement o Mortar, in Proceedings Of National Conference On Advances In Construction Materials And Equipments, JEC, Jabalpur, 12th &amp; 13th January-2008, pp-57-65.</p>
Invited Guest Lectures	<ol style="list-style-type: none"> <li>1. "Making durable concrete with fly ash" at NSCPL Bhilai Fly Ash Meet, Bhilai, 23-02-2016.</li> <li>2. "Increasing the durability of concrete using PSC", ACC engineers meet, Raipur, 15-10-2015.</li> <li>3. "Improving earthquake resistance of concrete" at O. P. Jindal Institute of Technology, Raigarh, 11-09-2015.</li> <li>4. "Increasing earthquake resistance of concrete", at Training programme on Earthquake Resistant Building Construction Techniques and Safe Construction Practices, at CED, GEC Bilaspur on 12-03-2015</li> </ol>
Professional Contribution	<ul style="list-style-type: none"> <li>▪ Structural design experience of various RCC structures.</li> <li>▪ Completed consultancy and testing worth more than Rs. 30 lac.</li> <li>▪ Experience of concrete mix design.</li> </ul>
Membership of Professional Societies	<ul style="list-style-type: none"> <li>▪ Associate member of The Institution of Engineers</li> <li>▪ Life member of ISTE</li> <li>▪ Member of American Concrete Institute</li> <li>▪ Member of Indian Concrete Institute</li> </ul>
Professional Strengths	<ul style="list-style-type: none"> <li>▪ Teaching and Research experience of 14 years.</li> <li>▪ Ability to handle projects independently.</li> <li>▪ Knowledge of various software.</li> </ul>