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SHIRISH V. DEO

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 16th 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.
- Five Ph.D completed
- Supervising Three 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.

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%

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

Summary of qualifications

Area of research

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 2017
Citations	477	456
h-index	10	10
i10-index	11	11

Research Gate Score

16.69 on 21-01-2022

Patent

3 Published

**Research
Contribution**

- International journal papers:
 1. Rath, B, Deo, S. V. and Ramtekkar, G. (2022), “An Experimental Study on Strength and Durability of Glass Fiber Reinforced Cement Concrete with Partial Replacement of Cement and Sand with Coal Ashes Available in Central Chhattisgarh Region”, Current Applied Science and Technology Vol. 22 No. 1 (January-February 2022) DOI:[10.55003/cast.2022.01.22.010](https://doi.org/10.55003/cast.2022.01.22.010) (Indexed in SCOPUS)
 2. Rathore, A. S., Pradhan, M., Deo, S. V., and Dash, A. K. (2022), “Coal Mine Overburden As Resource Material For Making Brick”, International Journal of Engineering Trends and Technology Volume 70 Issue 1, 118-125, January, 2022 ISSN: 2231 – 5381 /doi:10.14445/22315381/IJETT-V70I1P213 (Indexed in SCOPUS)
 3. Kanthe, V., Deo S. V. and Murmu, M. (2021), “Modulus of elasticity of blended concrete containing multiple admixtures for sustainability infrastructural material”, Innovative Infrastructure Solutions, published online on 08-10-21, <https://doi.org/10.1007/s41062-021-00599-6> (Indexed in SCOPUS)
 4. K. Venkateswarlu, S. V. Deo, M. Murmu, (2021) “Effect of Super Absorbent Polymer on Workability, Strength and Durability of Self Consolidating Concrete”, International Journal of Engineering, Transactions B: Applications Vol. 34, No. 05, (May-2021) 1118- 1123, doi: 10.5829/ije.2021.34.05b.05 (Indexed in SCOPUS)
 5. Rath, B, Deo, S. V. and Ramtekkar, G. (2020) “Modification of ACI209R-92 Concrete Shrinkage Model for Partial Replacement of Cement with Fly Ash and Sand with Pond Ash” Advances in Civil Engineering Materials, doi:10.1520/ACEM20200036 / Vol.9 / No. 1 / 2020, pp 602-620, October 2020. (Indexed in SCOPUS)
 6. Singh Abhishek , Ch.L.Phanendra , G.S.Saiveera , Chandravanshi Saurabh, Sharma Udit and S.V. Deo (July-2020), “Feasibility of Bentonite as An Internal Curing Agent in Concrete”, Current Materials Science, 2020, Vol. 19, No. 1, <http://dx.doi.org/10.2174/2666145413999201123194930> (Indexed in SCOPUS)
 7. Palod, R., Deo, S. V. and Ramtekkar, G. (2020), “Sustainable Approach for Linz-Donawitz Slag Waste as a Replacement of Cement in Concrete: Mechanical, Microstructural and Durability Properties”, Advances in

Civil Engineering, Vol. July 2020,
<https://doi.org/10.1155/2020/5691261> (Indexed in
SCOPUS and SCI Expanded)

8. Palod, R., Deo, S. V. and Ramtekkar, G. (2020), Effect on mechanical performance, early age shrinkage and electrical resistivity of ternary blended concrete containing blast furnace slag and steel slag. *MATERIALS TODAY:PROCEEDINGS*, [Volume 32, Part 4](#), 2020, Pages 917-922 April 2020 DOI: 10.1016/j.matpr.2020.04.747 (Indexed in SCOPUS)
9. M.Nasim, U.K.Dewangan and S.V.Deo, “Effect of crystalline admixture, flyash,and PVA fiber on self-healing capacity of concrete, *Materials Today: Proceedings*, Volume 32, Part 4, 2020, Pages 844-849 <https://doi.org/10.1016/j.matpr.2020.04.062> April 2020. (Indexed in SCOPUS)
10. M. Nasim, U. K. Dewangan and S. V. Deo, Autonomous healing in concrete by crystalline admixture: A review, *Materials Today: Proceedings*, [Volume 32, Part 4](#), 2020, Pages 638-644 <https://doi.org/10.1016/j.matpr.2020.03.116>, April 2020. (Indexed in SCOPUS)
11. Rath, B, Deo, S. V. and Ramtekkar, G. (2020) “A Proposed Mix Design of Concrete with Supplementary Cementitious Materials by Packing Density Method”, *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, <https://doi.org/10.1007/s40996-020-00362-4>, Feb-2020 (Indexed in SCOPUS)
12. Rath, B, Deo, S. V. and Ramtekkar, G. (2019) “Behaviour of Early Age Shrinkage of Concrete with Binary and Ternary Combination of Fly Ash and Pond Ash with Addition of Glass Fiber”, *Iranian (Iranica) Journal of Energy and Environment* 10(4): 248-255, Nov-2019
13. Raut, M. and Deo, S. V. (2019), “Influence of High Volume Fly Ash as a Replacement of Cement and Sand Along With Glass Fiber on the Durability of Concrete”, *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249-8958, Volume-8 Issue-5, June 2019. (Indexed in SCOPUS)
14. 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.
15. 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).
16. 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)
 17. 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)
 18. 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).
 19. 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).
 20. 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).
 21. 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).
 22. 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.
23. 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.
24. 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.
25. 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.
26. 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).
27. 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.
28. 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)
29. 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)
30. 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)
31. 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.
32. 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.
33. 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)
34. 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.

35. 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. & Ramtekkar, 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. Palod, R., Deo, S. V. and Ramtekkar, G. (2020), “Effect on mechanical performance, early age shrinkage and electrical resistivity of ternary blended concrete containing blast furnace slag and steel slag”, 3rd International conference on Innovative technologies for clean and sustainable development, Chandigarh, India, 19th -21st February 2020, pp- 119.
2. Deo, S. V., Mohd Nasim and Dewangan, U. K. (2020), “Autonomous healing in concrete by crystalline admixture: A Review”, 3rd International conference on Innovative technologies for clean and sustainable development, Chandigarh, India, 19th -21st February 2020, pp- 143.
3. Deo, S. V., Mohd Nasim and Dewangan, U. K. (2020), “Effect of crystalline admixture, fly ash, and PVA fiber on self-healing efficiency of early-age cracks in concrete”, 3rd International conference on Innovative technologies for clean and sustainable development, Chandigarh, India, 19th -21st February 2020, pp- 144.

4. Deo, S. V., Venkateswarlu, K. and Murmu, M. (2020), “Effects of internal curing on self compacting concrete – A Review”, 3rd International conference on Innovative technologies for clean and sustainable development, Chandigarh, India, 19th -21st February 2020, pp- 139.
5. Deo, S. V., Singh, A , Ch.L.Phanendra, Saiveer G.S., Chandravanshi, S, and Sharma U. (2020), “Feasibility of bentonite as an internal curing Agent in concrete”, 2nd International conference on recent trends in renewable energy and sustainable global development, Raipur 30th - 31st January 2020.
6. 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, 11th to 13th December, 2017, pp-76-82.
7. 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.
8. 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.
9. 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.
10. 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.
 11. 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.
 12. 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.
 13. 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.
 14. “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.
 15. 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.

16. 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.
17. 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.
18. 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, 19th -20th 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 Replacement of Natural Sand By Fly Ash, Proceedings Of ICI National Seminar On Green Structures For Sustainability, Allahabad, 10th & 11th October-2009, pp-II-7-II-14.
 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.
 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 & 13th January-2008, pp-57-65.
1. "Concrete technology for engineers" at online engineers training program at RCTRC Raipur on 29-12-21
 2. "Construction of rigid pavements" at engineers training program at RCTRC Raipur on 09-12-21
 3. "Concrete technology for engineers" at online engineers training program at RCTRC Raipur on 26-09-21
 4. "Introduction to self compacting concrete" on Indian Building Congress, Chhattisgarh state centre foundation day on 01/09/2021
 5. "Sustainable concrete" at Ultratech and Birla gold tech talk on 31/05/2021
 6. "Increasing earthquake resistance of concrete" at JSW cement engineers meet on 29-05-2021
 7. "Good concrete" at online engineers training program at

**Invited Guest
Lectures**

RCTRC Raipur on 21-01-21

8. "Quality concrete management" at online engineers training program at RCTRC Raipur on 17-12-20
9. "Use of innovative technology and materials for roads" at online engineers training program at RCTRC Raipur on 26-10-20
10. "Performance evaluation of concrete pavement" at online engineers training program at RCTRC Raipur on 25-09-20
11. "Self compacting concrete" at Ultratech and Birla gold tech talk on 18/05/2020
12. "Hot-Weather Concreting" to civil engineering students at Marwadi University on 14-05-2020
13. "Particle packing of concrete" at ACC invited talk on 30/04/2020
14. "Making durable concrete with fly ash" at NSCPL Bhilai Fly Ash Meet, Bhilai, 23-02-2016.
15. "Increasing the durability of concrete using PSC", ACC engineers meet, Raipur, 15-10-2015.
16. "Improving earthquake resistance of concrete" at O. P. Jindal Institute of Technology, Raigarh, 11-09-2015.
17. "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

Professional Contribution

- Structural design experience of various RCC structures.
- Completed consultancy and testing worth more than Rs. 30 lac.
- Experience of concrete mix design.

Membership of Professional Societies

- Associate member of The Institution of Engineers
- Life member of ISTE
- Member of American Concrete Institute
- Member of Indian Concrete Institute

Professional Strengths

- Teaching and Research experience of 20 years.
- Ability to handle projects independently.
- Knowledge of various software.