




**MAHARASHTRA INSTITUTE OF TECHNOLOGY**  
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 Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

**FACULTY PROFILE**

Name of Faculty Member:	Dr. Ajay Gulabrao Dahake	
Designation:	Associate Professor	
Department:	Civil Engineering	
Highest Qualification:	Ph. D. (Structural Engineering)	
Research Area:	Refined Shear Deformation Theories Fiber Reinforced Concrete Design of Structures	
Current Research Interest:	Refined Shear Deformation Theories Fiber Reinforced Concrete	
Publications: (Total)	<b>59</b>	
<b>International Journals: (Only peer reviewed Journals)</b>	<b>21</b>	
<b>National Journals: (Only peer reviewed Journals)</b>	<b>14</b>	
International Conferences: (Only peer reviewed Conferences)	<b>8</b>	
National Conferences(Only peer reviewed Conferences)	<b>5</b>	
<b>Total (Peer Reviewed)</b>	<b>35 Journals and 13 Conferences - Total = 48 Peer Reviewed</b>	
Total (Not Peer Reviewed)	<b>11</b>	
Web Address (if any): (Ex. Google scholar, ResearchGate, Scopus, Web of science, etc.)	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=Xv6qyxwAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=Xv6qyxwAAAAJ</a> <a href="https://www.researchgate.net/profile/Ajay_Dahake">https://www.researchgate.net/profile/Ajay_Dahake</a>	

Date: 21.06.2017

Dr. A. G. Dahake



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Sr. No.	Title of the Paper
1	Y. M. Ghugal and <b>A. G. Dahake</b> , Flexure of Thick Beams Using Refined Shear Deformation Theory, International Journal of Civil and Structural Engineering, 3(2), Nov. 2012, ISSN 0976-4399, doi:10.6088/ijcser.20123013031, pp. 321-335.
2	Y. M. Ghugal and <b>A. G. Dahake</b> , Flexural Analysis of Deep Beam Subjected to Parabolic Load Using Refined Shear Deformation Theory, Applied and Computational Mechanics, 6(2), Dec. 2012, pp. 163-172
3	<b>A. G. Dahake</b> and Y. M. Ghugal, Flexure of Thick Simply Supported Beam Using Trigonometric Shear Deformation Theory, International Journal of Scientific and Research Publications, 2(11), Nov. 2012, ISSN 2250-3153, pp. 1-7
4	<b>A. G. Dahake</b> and Y. M. Ghugal, A Trigonometric Shear Deformation Theory for Thick Beam, Journal of Computing Technologies, ISSN 2278-3814, 2012, pp. 31-37.
5	Y. M. Ghugal and <b>A. G. Dahake</b> , Flexure of Cantilever Thick Beams Using Trigonometric Shear Deformation Theory, International Science Index, Mechanical and Mechatronics Engineering, 7(5), World Academy of Science, Engineering and Technology, 2013, pp. 958-967.
6	Y. M. Ghugal and <b>A. G. Dahake</b> , Flexure of Simply Supported Thick Beams Using Refined Shear Deformation Theory, International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering, 7(1), World Academy of Science, Engineering and Technology, 2013, pp. 99-108.
7	<b>A.G. Dahake</b> , Rupa Walunj, Manjushree Dhongade and Jaya Sawarkar, Flexure of Thick Cantilever Beam using Third Order Shear Deformation Theory, International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X, 6(10), April 2013, pp. 09-14.
8	<b>A.G. Dahake</b> , A. B. Mangrulkar and M. M. Shingare, Third Order Shear Deformation Theory: An Application to Thick Beam, Journal of computing Technologies, ISSN 2278-3814, 2(3), 2013, pp. 22-27.
9	M. K. Sawant and <b>A. G. Dahake</b> , A New hyperbolic Shear Deformation Theory for Analysis of thick Beam, International Journal of Innovative research in Science, engineering and technology, ISSN: 2319-8753, 3(2), Feb. 2014, pp. 9636-9643.
10	V. B. Chavan and <b>A. G. Dahake</b> , Analysis of Thick Beam Bending Problem by Using a New Hyperbolic Shear Deformation Theory, International Journal of Engineering Research and General Science, 2(5), Sept. 2014, ISSN 2091-2730, pp. 209-215.
11	V. B. Chavan and <b>A. G. Dahake</b> , A Refined Shear Deformation Theory for Flexure of Thick Beam, International Journal of Pure and Applied Research in Engineering and Technology, Impact Factor: 4.226, ISSN: 2319-507X, 3(9), May 2015, pp. 109-119.
12	V. N. Nimbalkar and <b>A. G. Dahake</b> , Displacement and Stresses for Thick Beam using New Hyperbolic Shear Deformation Theory, International Journal of Pure and Applied Research in Engineering and Technology, Impact Factor: 4.226, ISSN: 2319-507X, 3(9), May 2015, pp. 120-130.
13	U. B. Kalwane, Y. M. Ghugal and <b>A. G. Dahake</b> , Shear strength of polymer modified steel fiber reinforced concrete, The Indian Concrete Journal, 90(2), 2016, pp. 01-10.
14	U. B. Kalwane, Y. M. Ghugal and <b>A. G. Dahake</b> , Toughness of Polymer Modified Steel Fiber Reinforced Concrete, Open Journal of Civil Engineering, Scientific Research, <a href="http://dx.doi.org/10/ojce.2016.61002">http://dx.doi.org/10/ojce.2016.61002</a> , 6(1), Feb. 2016, pp. 8-18.



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15	V. A. Jadhav and <b>A. G. Dahake</b> , Bending Analysis of Deep Beam Using Refined Shear Deformation Theory, International Journal of Engineering Research, ISSN: e2319-6890, p2347-5013, 5(3), doi:10.17950/ijer/v513/003, Feb. <b>2016</b> , pp. 526-531, Impact Factor 6.029.
16	S. S. Manal, R. M. Sawant and <b>A. G. Dahake</b> , A New Trigonometric Shear Deformation Theory for Thick Fixed Beam, International Journal of Engineering Research, ISSN: e2319-6890, p2347-5013, 5(3), doi:10.17950/ijer/v513/004, Feb. <b>2016</b> , pp. 532-536, Impact Factor 6.029.
17	S. P. Nirkhe, D. N. Kakde and <b>A. G. Dahake</b> , Design of Flat Slab with MATLAB, International Journal of Engineering Research, ISSN: e2319-6890, p2347-5013, 5(3), doi:10.17950/ijer/v513/005, Feb. <b>2016</b> , pp. 537-540, Impact Factor 6.029.
18	S. P. Nirkhe, <b>A. G. Dahake</b> and V. R. Upadhye, Seismic Behavior of Soft Storey Building with Static and Dynamic Earthquake Loading, International Journal of Structural Engineering and Analysis, Journals Pub, 2(2), <b>2016</b> , pp. 1-7.
19	M. K. Sawant and <b>A. G. Dahake</b> , Transverse shear deformation for deep beams using new hyperbolic shear deformation theory, Imperial Journal of Interdisciplinary Research, 2(6), <b>2016</b> , ISSN 2454-1362, pp. 572-576.
20	M. K. Sawant, <b>A. G. Dahake</b> , R. S. Deshmukh and V. N. Nimbalkar, Analysis of thick beam using new hyperbolic shear deformation theory, International Journal of Research in Engineering and Technology, eISSN: 2319-1163, pISSN: 2321-7308, 5(5), May- <b>2016</b> , pp. 33-37.
21	U. B. Kalwane, A. G. Dahake, Elastic Constants

#### National Journals (Peer Reviewed)

Sr. No.	Title of the Paper
1	Y. M. Ghugal and <b>A. G. Dahake</b> , Flexure of Thick Cantilever Beams Using Trigonometric Shear Deformation Theory, Journal of Experimental and Applied Mechanics, STM, 3(1), 2012, pp. 17-31.
2	<b>A. G. Dahake</b> , Y. M. Ghugal, A trigonometric Theory for Thick Beam, ISST Journal of Mechanical Engineering, 3(2), 2012, pp. 1-11.
3	V. N. Nimbalkar and <b>A. G. Dahake</b> , A New Hyperbolic Shear Deformation Theory for Flexure of Thick Simply Supported Beam, Journal of Structural Engineering and Management, ISSN: 2393-8773 (Online), STM, 1(3), 2014, pp. 15-22.
4	A.N. Patil and <b>A. G. Dahake</b> , Design of Steel Plate Shear Wall with opening for Steel Building, Journal of Structural Engineering and Management, ISSN: 2393-8773 (Online), STM, 1(2), 2014, pp. 17-24.
5	<b>A.G. Dahake</b> and M. R. Chitlange, Displacements in Thick Beams using Refined Shear Deformation Theory, Journal of Aerospace Engineering and Technology, ISSN 2231-038X (Online), ISSN: 2348-7887 (Print), STM, 4(3), <b>2014</b> , pp. 22-30.
6	U. B. Kalwane and <b>A. G. Dahake</b> , Effect of Polymer Modified Fibers on Strength of Concrete, Journal of Polymer Composites, ISSN: 2321-2810 (Online), ISSN: 2321-8525 (Print), STM, 3(1), <b>2015</b> , pp. 15-24.
7	U. B. Kalwane, <b>A. G. Dahake</b> and V. R. Upadhye, Effect of Polymer Modified Steel Fiber Reinforced Concrete on Bond Strength, Journal of Experimental & Applied Mechanics, ISSN: 2230-9845 (Online), ISSN: 2321-516X (Print), STM, 6(2), <b>2015</b> , pp. 33-43.
8	A.G. Dahake and K. S. Charkha, Effect of Steel Fibers on Strength of Concrete, Journal of Engineering Science, Management and Education, NITTTR, Bhopal, 9(1), Mar. <b>2016</b> , pp. 45-51.
9	V. R. Upadhye, C. P. Jagtap and <b>A. G. Dahake</b> , Modeling Initial Design of Steel Portal Frame



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	Using Artificial Neural Network, Journal of Aerospace Engineering and Technology, ISSN: 2231-038X (Online), ISSN: 2348-7887 (Print), STM, 6(2), <b>2016</b> , pp. 16-20.
10	P. B. Patil and <b>A. G. Dahake</b> , Finite Element Analysis Using 2D Plane Stress Elements for Thick Beam, Journal of Aerospace Engineering and Technology, ISSN: 2231-038X (Online), ISSN: 2348-7887 (Print), STM, 6(2), <b>2016</b> , pp. 1-8.
11	V. T. Holambe, V. R. Upadhye and <b>A. G. Dahake</b> , Optimum Design of Singly Reinforced Beams using Particle Swarm Optimization, Advances in Civil and Structural Engineering, ManTech Publications, 1(1), <b>2016</b> , pp. 1-10.
12	P. B. Patil, A. G. Dahake and V. R. Upadhye, Finite Element Analysis of Thick Beams using Lagrange-9 Element and ADINA, Journal of Experimental & Applied Mechanics, 2230-9845 (Online), ISSN: 2321-516X (Print), STM, 7(3), <b>2016</b> , pp. 50-57.
13	B. B. Patil, <b>A. G. Dahake</b> , V. R. Upadhye and C. L. Gogte, Effects of Carbon Fiber on Strength of Concrete, Journal of Thin Films, Coating Science Technology and Application, 2455-3344 (Online), STM, 3(3), <b>2016</b> , pp. 1-8.
14	R. L. Shirale, K. R. Kale and <b>A. G. Dahake</b> , Effect of Steel Slag and Bagasse Ash on Strength of Concrete, Journal of Experimental & Applied Mechanics, ISSN: 2230-9845 (Online), ISSN: 2321-516X (Print), STM, 8(1), <b>2017</b> , pp. 1-10.

**Conference Papers: (Peer Reviewed)**

Sr. No.	Title of the Paper	Conference Name	Conference Level (National/International)	Conference Venue & Organizer	Dates
1	Flexure of Thick Cantilever Beam Using Refined Shear Deformation Theory	Structural Engineering Convention	International	SVNIT, Surat	2012
2	A Trigonometric Shear Deformation Theory for Flexure of Thick Beam	Procedia Engineering (Elsevier) (SciVerse Science Direct)	International	Nirma University, Ahmadabad	2013
3	Effect of Alkali Resistant Glass Fibers on Various Strengths of Concrete	Procs. International Symposium on Innovative World of Concrete	International	Indian Concrete Institute, Pune	Sept. 19-21, 2003.
4	Fibre Reinforced Concrete: A Promising Material for Road Pavements	Procs. National Conference on Improvement, Rehabilitation and Maintenance of Roads, (IRAM-2003),	National	Govt. College of Engineering, Aurangabad and Sponsored by AICTE, New Delhi.	August 22-23, 2003
5	Modeling of Steel Fiber Reinforced Concrete	Procs. 2nd International	International	Indian Association	08-10 Dec'2006.



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	with High Fiber Volume Fractions	Conference on Computational Mechanics and Simulation (ICCMS-06		for Computational Mechanics in collaboration with IIT Guwahati, India.	
6	ICE and T Education	12 <sup>th</sup> ISTE Convention	National	JSPM Educational Campus, Pune	11 and 12 Jan' 2009.
7	Effect of Polymer Modified Steel Fiber Reinforced Concrete on Various Strength of Concrete	Proceedings of Recent Advances in Structural Engineering (RASE-2013)	National	University College of Engineering (A), Osmania University, Hyderabad,	13-15 Dec.2013
8	Effect of Steel Fibers on Various Strength of Concrete	Proceedings of National Conference	National	College of Engineering, Pondicherry	2014
9	Analysis of Thick Simply Supported Beam using Refined Shear Deformation Theory	Proceedings of Recent Advances in Structural Engineering (RASE-2013),	National	University College of Engineering (A), Osmania University, Hyderabad	13-15 Dec.2013
10	Design of Flat Slab using various codes and MATLAB	Proceedings of International Conference on Innovations in Structural Engineering	International Conference on Innovations in Structural Engineering	Osmania University, Hyderabad,	14-17 Dec. 2015
11	Trigonometric Shear Deformation Theory for Thick simply supported beam	International Conference on Proceedings of Innovations in Structural Engineering	International Conference on Innovations in Structural Engineering,	Osmania University, Hyderabad,	14-17 Dec. 2015
12	Flexure of Fixed Thick Beam using Trigonometric Shear Deformation Theory	Proceedings of 6 <sup>th</sup> International Congress on Computational Mechanics and Simulation	6 <sup>th</sup> International Congress on Computational Mechanics and Simulation	Indian Institute of Technology, (IIT) Powai (Bombay), Maharashtra, India	27 <sup>th</sup> June to 1 <sup>st</sup> July 2016,
13	Comparison of various displacement fields for static analysis	Proceedings of Structural Engineering	Structural Engineering Convention	CSIR-SERC, Chennai, INDIA.	21-23 December 2016.



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of thick isotropic beams	Convention	(SEC-2016)		
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Sr. No.	Title of the Paper	Conference Name	Conference Level (National/International)	Conference Venue & Organizer	Dates
1	Flexural analysis of Thick Isotropic Clamped-clamped Beams using Trigonometric Shear deformation Theory	International Journal of Advances in Management Technology and Engineering Sciences, Vol. 1, Issue 6 (x)	International	Deogiri Institute of Engineering and Management Studies, A'bad	March 2012,
2	Disaster Management-A Study	Proceeding of National Conference on Recent Trends in Engineering & Technology, NCRTE-2016, pp. 26-33.	National	Shreeyash College of Engineering and Technology A'bad	9 <sup>th</sup> May, 2016
3	Drought Mitigation – A Literature Review	Proceeding of National Conference on Recent Trends in Engineering & Technology, NCRTE-2016, pp. 34-40.	National	Shreeyash College of Engineering and Technology A'bad	9 <sup>th</sup> May, 2016
4	Effect of Different Steel Fibers on Strength of Concrete	Proceeding of National Conference on Recent Trends in Engineering & Technology, NCRTE-2016, pp. 41-45.	National	Shreeyash College of Engineering and Technology A'bad	9 <sup>th</sup> May, 2016
5	Performance of Sloped Bottom Tuned Liquid Damper in Reduction of Structural Vibration	Proceeding of National Conference on Recent Trends in Engineering & Technology, NCRTE-2016, pp. 50-53.	National	Shreeyash College of Engineering and Technology A'bad	9 <sup>th</sup> May, 2016
6	Refined Shear Deformation Theory, An Application to Thick Beams	Proceeding of National Conference on Recent Trends in Engineering & Technology, NCRTE-2016, pp. 54-59.	National	Shreeyash College of Engineering and Technology A'bad	9 <sup>th</sup> May, 2016
7	Repair and Strengthening of Concrete Components	Proceeding of National Conference on Recent Trends in Engineering &	National	Shreeyash College of Engineering	9 <sup>th</sup> May, 2016



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		Technology, NCRTE-2016, pp. 60-66.		and Technology A'bad	
8	ANN Application to Initial Design of Portal Frame	Proceeding of National Conference on Recent Trends in Engineering & Technology, NCRTE-2016, pp. 23-25.	National	Shreeyash College of Engineering and Technology A'bad	9 <sup>th</sup> May, 2016
9	Mechanical behavior of Carbon Fibers	National conference on Design, Manufacturing and Thermal Engineering	National	JSPM, Pune	10-11 Feb. 2017
10	Design of weir by providing raft foundation	National conference on Advanced trends in agricultural and food engineering ATAFE-2017	National	MIT, Aurangabad	7-8 April 2017
11	Study of various soil properties of Shivana river for construction of raft foundation	National conference on Advanced trends in agricultural and food engineering ATAFE-2017	National	MIT, Aurangabad	7-8 April 2017

### Reviewer of National and International Journals

1. Latin American Journal of Solids and Structures (LAJSS)
2. Journal of Experimental and Applied Mechanics, STM Publications
3. International Journal of Scientific Research Publication
4. OMICS Group - Engineering Journals
5. Open Journal of Civil Engineering

### Educational Qualifications:

- **Ph. D. (Structural Engineering): December 2013**  
Dr. BAM University, Govt. College of Engineering, Aurangabad [*an autonomous Institute*]
- **M. E. (Civil-Structures): June 2006**  
Govt. College of Engineering, Aurangabad with First Class (68.44%)
- **B. E. (Civil): June 1998**  
Govt. College of Engineering, Amravati with First Class (61.64%)
- **Diploma in Engineering (Civil & Rural): June 1995**  
Dr. P. D. Polytechnic, Amravati, MSBTE Board, Mumbai with First Class (71.38%)

### Membership



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- **MISTE**
- **M. ACI (USA)**

**Experience: Teaching: 15 Years +Industrial : 4.5 Years**

**Govt. College of Engg., Aurangabad** as a Lecturer in Applied Mechanics Dept. for **4 Years**

**MHADA, Pune** as an **Asst. Engineer-II** for **3 Years**

**JSPM, Imperial College of Engineering and Research, Pune** as **Asst. Prof** in Civil Engineering and **Vice Principal** for **3 Year**

**Shreeyash College of Engineering & Technology, Aurangabad** as Associate Prof. / HOD / Academic Dean / **I/c. Principal** for **5.5 Year**

**Present Status:** Maharashtra Institute of Technology (MIT), Aurangabad as **Asso. Prof.** and **Head** of Civil Engg. Department from November-2014 (@ **2.5 Years**)

**Shree Housing Associates, Amravati** as an **Asst. Project Engineer** for **1 year**

**Lal Construction Company, Pune** as a **Site Engineer** for **6 Months**

**Short term courses/conferences/symposium/training attended/conducted**

1. National Seminar on Financing, Design, Construction & Operation of Highways (**FDCHO**) held on 7<sup>th</sup> & 8<sup>th</sup> Feb. 2002 on organized by Civil Engineering Department, Govt. College of Engineering Aurangabad and Sponsored by **AICTE**, New Delhi.
2. National seminar on Improvement, Rehabilitation and Maintenance of Roads. (**IRAM-2003**), August 22-23, 2003. Organized by Civil Engineering Department, Govt. College of Engineering Aurangabad and Sponsored by **AICTE**, New Delhi.
3. International Symposium on Innovative World of Concrete (**IWC**), Organized by Indian Concrete Institute, Pune, India, Sept. 19-21, 2003.
4. Training on **Waterproofing Treatment** organized by Professional Development Centre (**PDC-MHADA**) November 03-04, 2003 at Pune. Organized by Maharashtra Housing and Area Development Authority, Mumbai.
5. Training on **Orientation Course** organized by Professional Development Centre (**PDC-MHADA**) January 19-23, 2004. at Pune. Organized by Maharashtra Housing and Area Development Authority, MHADA, Mumbai.





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6. Training on **Concrete Technology** by **M. S. Shetty** organized by Professional Development Centre (**PDC-MHADA**) July 12-17,2004. at Pune. Organized by Maharashtra Housing and Area Development Authority, Mumbai.
7. Training on **Self Management and Leadership Skills** organized by Professional Development Centre (**PDC-MHADA**) October 06-08,2004. at Pune. Organized by Maharashtra Housing and Area Development Authority, Mumbai.
8. Training on **Quality Control and Waterproofing** organized by Professional Development Centre (**PDC-MHADA**) January, 02-04, 2006. at Pune. Organized by Maharashtra Housing and Area Development Authority, Mumbai.
9. **National Workshop on Design of Steel Structures using Revised IS 800:2007** organized by Department of Civil Engineering, Sinhgad College of Engineering, Pune from 30<sup>th</sup> June to 4<sup>th</sup> July 2009.
10. **National Workshop on Design of Steel Structures using Revised IS 800:2007** organized by Department of Civil Engineering, Marathwada Institute of Technology, Aurangabad from 30<sup>th</sup> June to 4<sup>th</sup> July 2009.
11. Conducted Expert Lecture at Dr. BAMU, Aurangabad on INSPIRE in 2013.
12. 2 week ISTE, MHRD sponsored STTP, Introduction to Structural Engineering, worked as **Teaching Assistant, Conducted by IIT, Kharagpur at RC 1098, MIT Aurangabad**
13. **Conducted 2 Day Refresher Course** on Structural Engineering, organized by Department of Civil Engineering, Marathwada institute of Technology, Aurangabad on 30-31 July 2015.
14. Conducted 2 week ISTE, MHRD sponsored STTP, Environmental Engineering, worked as **Teaching Assistant, Conducted by IIT, Bombay, Mumbai. At RC 1098, MIT Aurangabad.**
15. 2 Day workshop on **Osdag conducted by IIT Bombay, Mumbai** on 4-5 June 2016.
16. Worked as **faculty co-ordinator** for Civil Engineering Group, Pre-Ph.D. Course work at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
17. 1 Day workshop on “Intellectual Property Rights (IPR)” by RUSA, RGNIIPM and Dr. BAMU Aurangabad on 22.08.2016.
18. 1 Day workshop on Piezoelectric Materials, Applications in SHM, Energy Harvesting & Bio-Mechanics” Organized by Govt. College of Engg, Amravati on 27.01.2017.
19. Key note speaker and Session Chair for the National conference at JSPM, Pune on 10 and 11th February 2017.



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20. Key note speaker and Session Chair for the National conference at Govt. College of Engineering, Karad 27-28 Feb. 2017.
  21. One day workshop on outcome based education at Deogiri Institute of Engineering and Management Studies, Aurangabad on 9th June 2017

**Personal Information**

**Date of Birth** : 3<sup>rd</sup> Oct 1975  
**Languages Known** : English, Marathi and Hindi  
**Nationality** : Indian  
**Address** : E-5, Swajuswa, Jyoti Pride-91, Satara Parisar,  
Aurangabad (MS), 431005  
**Telephone No.** : +919423241975, 8149409975,  
**E- Mail Address** : ajaydahake@gmail.com, [ajay.dahake@mit.asia](mailto:ajay.dahake@mit.asia)

Place: Aurangabad

Date: 21.06.2017

**(Dr. Ajay G. Dahake)**