

## **SELF APPRISAL**



1. **NAME :-** Dr. SUREKHA ANIL BHALCHANDRA.
2. **DESIGNATION :-** LECTURER, APPLIED MECHANICS DEPARTMENT,  
GOVERNMENT COLLEGE OF ENGINEERING,  
AURANGABAD.
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SCHOOL, NEW PRATAP NAGAR,  
AURANGABAD. 431 005 (M.S.)
5. **Telephone/Cell No:-** 0240-2336552
6. **E-mail Address:** surekhab2007@rediffmail.com.
7. **Date of Birth:** 06 - 06 - 1964
8. **Date of Joining Government Services:** 27 - 04 - 1998

**9. Date of Joining the Institute:**

02 - 11 – 2003

**10. GPF No.:** EDBN 14076

**11. Religion:** Hindu

**12. Bank Name:** State Bank of India **Branch Name:** Dashmesh Nagar, Aurangabad.

**13. PAN No.:** AHEPB2924M

**14. Cast/Category:** Open

## 16. Qualifications

Sr No.	Name of the examination (starting from graduation)	University	Year of passing	Percentage of Marks	Division
1	B.E.Civil.	Marathwada University Aurangabad	1986	61.40 %	First.
2	M.E (Civil- Structure)	Marathwada University Aurangabad	1993	62.81%	First.
3	Ph.D. (Civil- Structure.)	Dr. B. A. Marathwada University Aurangabad	2 SEPT 2001	-	-

## 17. Professional Experience

Sr. No	Name Of Employer	Designation	Duration	Total Years	Remark
1	S.M.B. Polytechnic Ambajogai Dist. Beed	Lecturer	11-8- 1986 to 4-6-1988	2 years	
2	Vishnu Kunjar & Associates, Aurangabad	Structural Designer	10-6-1988 to 31-8-1990	2 years	
3	Marathwada Institute of technology Aurangabad	Lecturer	3-9-1990 to 27-4-1998	7 years & 8 months.	Total Experience
4	Govt. Polytechnic Aurangabad	Lecturer	27-4-98 to 1-11-2003	5 years & 7 months	= 29 years 4 months
5	Govt. Engineering College Aurangabad	Lecturer	2-11-03 to 8-7-2010	6 years 8 months	
6	Govt. Engineering College AMARAVATI	Asso. Prof	9-7-2010 to 27-June 2011	1 year	
7	Govt. Engineering College Aurangabad	Asso. Prof	28-7-2011	4 years 5 months  Working	

## 18. Research Interest

1) Topic of M.E. Dissertation: "Study of relation between electrical resistivity and compressive strength of concrete." submitted to Marathwada University, Aurangabad in 1993 for the award of M.E. in Civil- structures.

2) Topic of Ph.D. work: "Analysis of Circular Cylindrical Shell by F.E.M." submitted to Dr. B. A. Marathwada University, Aurangabad and the Ph. D. degree is awarded in Sept. 2001.

3) Recognised P.G. and Research Guide.

## 19. No. of Seminars / Conferences Workshops attended

I have participated in following courses.

Sr.No.	Name Of Course	Duration	Date and Year	Organised by
1	N.S.S. skill developments	2 Weeks	18 Jan to 27 Jan 1991	M.I.T., Aurangabad
2	Industry Institute Partnership	3 Days	24 to 26 Jan 1995	M.I.T., Aurangabad
3	Technical Teacher Training	4 Weeks	15 April to 10 May 2002	Govt. Polytechnic. Aurangabad
4	Computer applications	2 Weeks	17 to 29 June 2002	Govt. Polytechnic. Yavatmal
5	Internet & Web Application development.	2 Weeks	26 Aug to 7 Sept 2003	Govt. Polytechnic. Aurangabad
6	Energy, Audit & Conservation	1 Week	17 to 21 Jan 2005	Govt. Engineering college Aurangabad
7	Modeling & Bond graph Approach	1 Week	1 Jan to 15 Jan 2006	Govt. Engineering college Aurangabad

	Technology.			
9	Efficient usage of Laboratory & Lab. Equipments for students	1 Week	21 to 27 Jan 2008	By Asian Institute of Quality Management
10	Personal Effectiveness for Institutional Development	3 Days	27 to 29 Jan 2006	N.L. Dalmia Institute of Management, Mumbai
11	Certified course in TQM	1 Week	Oct 2007	By Asian Institute of Quality Management
12	Managerial skill	2 days	20 to 21 Aug 2005	Govt. Engineering college Aurangabad.
14	Workshop on Cyber Law for Faculty	3 Days	8 Sept 2006	Govt. Engineering college Aurangabad
15	Lab- Manual Development	3 days	17 Feb to 19 Feb 2003	T.T.I. Pune
16	Question Bank Development	3 days	28 to 30 Oct 2002	T.T.I. Pune.
17	Design of RCC Liquid storage tanks	Two days	24 <sup>th</sup> and 25 <sup>th</sup> Sept 2005	Institution of Engineers, Pune Local centre
18	Training programme on structural analysis and design of structures	10 Days	1 <sup>st</sup> July to 11 <sup>th</sup> July 2008	VNIT Nagpur
19	Training programme on Engineering Optimization	12 Days	28 <sup>th</sup> June to 9 <sup>th</sup> July	Govt. Engineering college Aurangabad
20	Training Programme on skill matrix enhancement effective teaching-learning for quality technical education	Two weeks	28 <sup>th</sup> Nov to 9 <sup>th</sup> Dec 2011	Govt. Engineering college Aurangabad

21	Advanced Steel design	One week	8 <sup>th</sup> Oct to 12 <sup>th</sup> Oct 2012	I.I.T. Delhi
22	Training Programme on Genetic Algorithm and Neuro Fuzzy Applications in Engineering	4 Days	17 <sup>th</sup> to 21 <sup>st</sup> Dec 2012	Govt. Engineering college Aurangabad
23	Limit state design of steel structures	4 Days	12 <sup>th</sup> to 15 <sup>th</sup> July 2013	MIT Aurangabad and Indian Society of Structural Engineers Aurangabad
24	Research Methodology and design of Experiments	5 Days	27 <sup>th</sup> to 31 <sup>st</sup> Oct 2014	MNIT Jaipur
25	NBA Preparation	2 Days	20 <sup>th</sup> to 21 <sup>st</sup> Dec 2014	Govt. Engineering college Aurangabad
26	Outcome based Education and NBA	2 Days	31 <sup>st</sup> Jan to 1 <sup>st</sup> Feb 2015	Govt. Engineering college Aurangabad

## 20. Membership of professional Bodies:

Sr No	Professional Organisation	Membership Number	Category.
1	American concrete Institute, India chapter	LM.05.106	Life Member
2	Indian Society of Technical Education	LM 12382	Life Member
3	The Institution of Engineers (India)	M 135416	Member of IE

## 21. Extra Activities:

- 1) Worked as Departmental Controller of Examination.
- 2) Member of Departmental Subject Board.

- 3) Testing and Consultancy projects undertaken by the department.
- 4) Participation in development of Question Bank for II yr. conventional Course @ T.T.I., Pune.
- 5) Participation in Lab Manual development @ T.T.I., Pune.
- 6) Participation in preparing the syllabus for III yr. Engg. @ G.E.C., Aurangabad.
- 7) Worked as Dean PG

## 22 List of Papers Published in National and International Conference:

Sr No	Title of the Paper	Name of Authors	Seminar on	Organised by	Duration	Remarks
1	Performance of High Strength steel fiber reinforced concrete	Dr. ( Mrs.) S. A. Bhalchandra& Dr. Y.M.Ghugal	Recent Development in Structural Engineering.	Department of Civil Engineering Manipal Institute of Technology Manipal	30,31 August &1 Sept.2007	International Conference
2	Analysis of effect of DOF on stresses at crown node of circular cylindrical shell	Dr. ( Mrs.) S. A. Bhalchandra& Mr. A. H. Bhalchandra	ISTAM	I. I. T. Kharagpur	Dec 14 - 17, 2005	International Conference
3	Analysis of circular cylindrical shell for dead load by finite element method	Dr. ( Mrs.) S. A. Bhalchandra	Recent advances in structural engineering	JNTU KAKINADA	2006	National Conference
4	Base Shear Comparison for ESR using various Codes	Dr. ( Mrs.) S. A. Bhalchandra& Dr. S.S. Jamkar	Recent Development in Structural Engineering.	Department of Civil Engineering Manipal Institute of Technology Manipal	30,31 August & 1 Sept.2007	International Conference
5	Performance of steel and polypropylene hybrid fiber reinforced concrete	Dr. ( Mrs.) S. A. Bhalchandra	Recent advances in structural engineering	Civil engg. dept. JNTU college of engineering	2008	National Conference
6	Pushover Analysis of Steel Frame Building	Dr. ( Mrs.) S. A. Bhalchandra&Jaydi ppardehi	Science, Engineering & Sprirituality	S.E.S.College of Engineering, Navalnagar	1,2 April 2010	International Conference
7	Cost optimization of two	Dr. ( Mrs.) S. A.	Civil Engineering for Infrastructural	Dept. of Civil Engg. D.Y.Patil college of	2010	National Conference

	way slab using ANN	Bhalchandra	development	engg. Akurdi Pune		
8	Study of effect of steel fiber inclusion on geopolymer concrete	Dr. ( Mrs.) S. A. Bhalchandra and S.V. Fegade	Sustainable techniques in civil and environmental engineering	RIP Research India Publications.  International Journal of civil Engineering and Applications  ISSN 2249-426X  Volume 3, Number 6, 2013	2013	International Conference
9	Use of semi rigid connections in steel structures- An Economical Aspect	Mr Shrikant N Pawar and Dr. S.A. Bhalchandra	Innovative techniques in civil engineering	J.T. Mahajan College of Engineering, Faizpur.	Feb 2011	National Conference

### 23. List of Publications in Journals:

Sr. No	Title of the Paper	Author	Seminar on	Organised by	Duration	ISSN No Volume Page no
1	Study of Relation Between Electrical Resistance of Fresh Concrete and its Compressive Strength	Dr S. A. Bhalchandra	ACI Bulletin of the Maharashtra Indian Chapter of ACI on "QUALITY". Vol. 14 No. 3	Journal of ACI Bulletin of the Maharashtra Indian Chapter of ACI.	July - Sept. 1999	
2	Prediction of compressive strength of Hardened concrete and NDT of fresh concrete by electrical resistance	Dr S.A. Bhalchandra and A.H. Bhalchandra	Building construction technology for the new millennium	Indian Building Congress and PWD Tamilnadu	Oct 1999	
3	In Service Education and Training - Sandwich Courses.	Dr S. A. Bhalchandra	Education and Training of Building Professionals	Journal of Indian Building Congress	April 20 - 22, 2000	
4	Factors affecting the Durability of structures	Dr. S. A. Bhalchandra	Durability of structures	ING-IABSE New Delhi and PWD Govt. of Maharashtra	2000	
5	Use of fiber reinforced soil as a sub-grade in highway	Dr. S.A. Bhalchandra and A.H.	Financing design, construction, and operation of	Govt. Engg. College	Aug 2002	



	construction	Bhalchandra	highway s	Aurangabad		
6	Analysis of effect of DOF on stresses at crown node of circular cylindrical shell	Dr. S.A. Bhalchandra and A. H. Bhalchandra	-	IIT Kharagpur	Oct 2005	
7	Performance of steel fiber reinforced High Strength silica fume concrete.	Dr. Y.M. Ghugal and Dr. S. A. Bhalchandra	Methods, Materials and Machinery	Journal of CE and CR	Oct 2009	Page no- 32-44
8	Performance of High Strength steel fiber reinforced concrete	Dr S.A. Bhalchandra and Dr. Y.M. Ghugal	Methods, Materials and Machinery	Journal of CE and CR. ISSN No-	Jan 2011	Volume.24 ISSN No-0975-9034 Page no- 62-70
9	Performance of High Strength steel fiber reinforced metakaolin concrete	Dr. S.A. Bhalchandra and Rajesh Shirale	Indian concrete journal	Journal of Indian Concrete. ISSN No-	2011	Volume.85 Page no- 37-43
10	Determination of properties of transversely isotropic lamina using micromechanics approach	Dr. S.A. Bhalchandra and Yashodhara.S. Shiradhonkar	Elixier Cement & concrete Composites 48 (2012)9588-9593	Elixier Cement & concrete Composites 48	24-Jul-2012	ISSN No-9588-9593 Page no- 1041-1046
11	Cost optimization of doubly reinforced rectangular beam section	Dr. Bhalchandra S.A. and P.K. Adsul	International journal of modern Engineering research	IJMER	2012	Volume.2 ISSN No-2249-6645 Page no- 62-70
12	Performance of Steel Fiber Reinforced Self Compacting Concrete	Dr. Bhalchandra S.A. and Pawase Amit Bajirao	International Journal of Computational Engineering Research (IJCER)	IJCER	Aug-2012	Volume.2 Page no- 1042-1046
13	Study of effect of steel fiber inclusion on geopolymer concrete	Dr. Bhalchandra S.A. and S.V. Fegade	International journal of civil engineering and applications.	IJCEA	June2013	Volume.3 ISSN No-2249-426X Page no- 56-60
14	Properties of glass fiber reinforced geopolymer	Dr. Bhalchandra	International journal of modern Engineering	IJMER	Aug 2013	

	concrete	S.A.	research			
15	Analysis of thermal buckling of ceramic-metal functionally graded plates using refined third order shear deformation theory.	Dr. S.A. Bhalchandra and Shirin Daimi	International journal of engineering research and applications.	IJERA	8-Aug. 2014	Volume-4 ISSN No-2248-9622 Page No-129-133
16	Effect of different staging configurations on seismic performance of circular elevated water tank	Dr. Bhalchandra S.A. and Ankita Patil	International journal of engineering research and applications.	IJERA	8-Aug. 2014	Volume.4 Issue 8 (Version 6) Page No 39-43 ISSN No 2248-9622
17	Seismic behaviour of RC buildings constructed on plain and sloping ground with different configurations of shear walls	Dr. Bhalchandra S.A. and Sandip Doijad	Journal of civil engineering and environmental technology	Krishi Sanskriti Publications.	2014	Volume.2 ISSN No-print-2349-8404 Online ISSN-2349-879X Page No- 59-65
18	Mechanical properties of Reactive powder concrete by using fly ash	A.D. Agharde Dr. S.A. Bhalchandra	International journal of advanced technology in engineering and science	IJATES	Jan 2015	Volume.03 ISSN No- 2348-7550 Page No-90-95
19	Response spectrum analysis of R.C Buildings Constructed on plain and sloping ground with different configurations of shear walls	Sandip Doijad and Dr. S.A. Bhalchandra	International journal of Structural Engineering and Managment	STM Journal	2015	ISSN No- 2396-8773 Volume-2 Issue-3 Page no- 65-73
20	Study on Seismic analysis of RCC and Steel-Concrete Composite Structure and Cost Comparision with different support conditions	Syed fahad Ali and Dr. S.A. Bhalchandra	International journal for scientific research and development	IJSRD	2015	ISSN NO-2321-0613 Volume-3 Issue-9
21	Seismic behavior of Reinforced concrete Buildings under varying frequency contents	Suryakant Narhire and Dr. S.A. Bhalchandra	International journal of Engineering and management research	IJEMR	Nov 2015	ISSN No- 01-2250-0758 print-2394-6962 Volume-5 Issue-5 Page no 526-534

22	Seismic Performance of the building resting on sloping ground with shear wall	Mrs.Sunita Kambale and Dr.S.A.Bhalchandra	International journal of Engineering Research and Technology	IJERT	2016	ISSN No- 2278-0181 Volume-4 Issue-30
23	Seismic assessment of multistory RCC frame structures by nonlinear static analysis.	Rajesh Mangalwedh eand Dr. S.A. Bhalchandra	Journal of Structural Engineering and Management,	JSEM	2016	ISSN No- 2321-0613 Volume-4 Issue-05
24	Comparative study of seismic performance of multistory RC frame structures with and without dampers.	RahilYousuf Mir and Dr. S.A. Bhalchandra	Journal of Structural Engineering and Management, STM Journal,	JSEM	2017	ISSN No- 2393-8773, Volume-4 Issue-2
25	Geopolymer effects on bricks using different molarity	RohiniS.Alte andDr.S.A.B halchandra	International journal for Scientific Research and Development	IJSRD	2017	ISSN No- 2321-0613, volume-5,Issue-6

#### 24. M.E. Dissertations Guided:

Sr No.	Title of Dissertation	Name Of Student	Year of Submission
1	Performance of high strength fibre reinforced concrete.	Dusane Nitin	2005 - 2006
2	Study of electrical resistivity of silica fume concrete	Swami Sandhya	2005 - 2006
3	Seismic Analysis of Water tank using various codes	Bhandekar R.P.	2005-2006
4	Performance of Polymer Modified Polypropylene Fiber Reinforced Concrete	Kulkarni Sumant Khanderao	2006 - 2007
5	Performance of Steel & Polypropylene Hybrid Fiber Reinforced Concrete	Bharambe Archana	2006 - 2007

6	Seismic Analysis of Buildings Situated on Sloping Ground	Khandare Shrikant	2006-2007
7	Determination of Properties of Transversely isotropic Lamina using Micromechanics Approach	Shiradhonkar Yashodhara Suresh	2007-2008
8	Performance of steel fiber reinforced Metakaoline concrete	Shirale Rajesh	2007 - 2008
9	Performance of Polyester Fibre Reinforced Concrete	Raut Vijay	2007 - 2008
10	Computer Automated Optimum Design of Reinforced Concrete Structures.	Kulkarni P.G.	2007- 2008
11	Study on electrical resistivity of metakaolin concrete	Kulkarni Prashant Murlidhar	2008 - 2009
12	Effect of Hooked steel Fibers on silica Fume Concrete	Kalurkar L.G.	2008-2009
13	Modeling Initial Design Process of 2 way slab using ANN	More Varsha T	2009 - 2010
14	Pushover Analysis of Steel Frame Building	Pardeshi Jaydeepsingh	2009 - 2010
15	Computer Automated Optimum Design of Reinforced T-Beam Section	Siddiqui Fouzia Abubakar	2009-2010
16	Seismic Analysis of RC frame building with soft first Storey.	Deshpande Raghavendra	2009-2010
17	Performance of steel fiber reinforced self compacting concrete	Amit Pawase	2012
22	Analysis of thermal buckling of ceramic-metal functionally graded plates using refined third order shear deformation theory.	Shirin Daimi	2013

23	Properties of glass fiber reinforced geopolymer concrete	Anuradha Shelake	2013
24	Effect of different staging configurations on seismic performance of circular elevated water tank	Ankita patil	2013-2014
25	Seismic behaviour of RC buildings constructed on plain and sloping ground with different configurations of shear walls	Sandip Doijad	2014
26	Mechanical properties of Reactive powder concrete by using fly ash	Amruta Arghade	2015
27	Study on Seismic Response of low, mid, and high rise RCC Buildings under various frequency content ground motions	Suryakant Narhire	2015
28	Comparative study on Seismic Analysis of RCC And steel-concrete composite structure	Syed Fahad Ali	2015
29	Pushover analysis of Building with and without floating column	Nikhil Verma	2015-16
30	Seismic Assessment Of Multistory Infill RCC Frame Structures By Non Linear Static Analysis	Rajesh mangalwedhe	2015-16
31	Study of coconut fibre reinforced concrete with Fly Ash	Meenaskhi Kolhare	2016
32	Performance of Multi-storey RC frame structures using friction and metallic dampers	Rahil Yusuf Mir	2017

