

## Nagesh Puttaswamy

Independent Civil Engineering Professional  
Trainer, Mentor & Skill Enhancer  
Bangalore

## Address

#1857, 11<sup>th</sup> A Main, 38<sup>th</sup> A Cross,  
4<sup>th</sup> 'T' Block, Jayanagar,  
Bangalore 560 041  
Karnataka  
Visit [www.concroc.in](http://www.concroc.in)



I am Passionate Civil Engineer working with Concrete & Construction as a profession & involved with Crocodiles as passion.

I would love to share my experience & knowledge to younger generation! of course not sacrificing the interest of my employers.

Civil Engineer - Trainer - Mentor - Concrete Technologist

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ConCroc for Education

## Educational qualifications

Formal: **B.E. IN CIVIL ENGINEERING** (University of Mysore) 1984-85 batch.

## Professional Status

1<sup>st</sup> Nov 2022 onwards

Working as independent Civil engineering professional, Trainer, Mentor, Skill upgrading & Quizz Master.

Catering for the requirement of Civil Engineering Profession, the Academic institution and students to impart skills or upgrade skills, assistance in project work for students etc.,

### 2006 to Oct 2022:

Working for M/s UltraTech Cement Ltd.,

1. April 2020 – Oct 2022 served as Zonal Head White Topping & RMD\* South India
2. May 2008 Regional Head Technical services the combined Andhra Pradesh
3. Feb 2006 – March 20070 worked as Regional Head Karnataka South.

- Has 14 years of Experience in Cement and concrete Industry.
- Involved in promoting new technologies in concrete constructions & training upgrading the skills of various stake holders of Construction Industry including grass root level workers.
- Got to work with some interesting Concrete for special construction.
- Involved in training various stake holder in construction of White Topping Roads & monolithic structure across the country

\*Rapid Monolithic Disaster-Proof Technology (used for housing)

### 1985 - 2006

- Worked as a Consultant, heading a sole Proprietary firm - **NAGESH CONSULTANTS**, which met the requirements of various clients pertaining to Structural Designs of Buildings.
- Additionally, I have rendered structural consultancy for various projects with several Architects in Bangalore.
- Projects handled, greenhouses for floriculture,
- Residential villas & apartments, Industrial buildings, Swimming pools, colleges, auditoriums etc.,
- Involved in rehabilitation works for factories and hospitals
- Got to work with projects with alternate building technology & systems

Had opportunities to work with various types of structure in several parts of the country.

I has designed conventional buildings, Steel for Industrial applications and also "green house" to grow roses

### Awards & Honours:

Was the Structural Consultant for

**"St. Mary's Church, Navanagar, Bagalkot."**

which was awarded –

**"ICI – Karnataka Hubli-Dharwar Centre – UltraTech Outstanding Concrete Structure Institutional Building section" for the year 2007-08.**

**"Outstanding Engineer – for the contribution in Concrete Roads and Monolithic Building Technology"**

By the Institution of Engineers (India) Mysore center

### Membership of Professional bodies

1. Associate Member - **Institution of Engineers (India)** AM 58010
2. Life Member - **Indian Concrete Institute** LM - 8503
3. Life Member **INSTRUCT** LM - 253.
4. Member **Indian Road Congress** - 38944
5. Life Fellow **Association of Consulting Civil Engineers (India)** F1980

a. Worked as Secretary 2009-11 term & Chairman 2013-15 term of ACCE (I) Bangalore Centre.

## Professional Experience

**Has about 36 years of experience in the field of civil engineering.**

**2022 November 1 onwards:** Started working in the field in field of consultancy, skill enhancement in construction industry, training of field force, quiz master and research advisor.

**2020 – 2022:** Under UltraTech Cement Ltd., I was involved in implementation of Concrete Overlay on Bitumen Roads across the country. Directly involved in construction, quality management training of contractors, engineers, supervisors and also the grass root worker. I was involved (continuing to be involved) in some academic research on pavement quality concrete.

**2020 – 2022:** Under UltraTech Cement Ltd., I was involved in implementation of Concrete Overlay on Bitumen Roads across the country. Directly involved in construction, quality management training of contractors, engineers, supervisors and also the grass root worker. I was involved (continuing to be involved) in some academic research on pavement quality concrete.

**1985 to 2006** 21 years Worked in the area of Construction Consultancy, planning, designs and execution, structural rehabilitation works etc., I Have designed various types of buildings & structures. All over India.

**2006 - 2020:** Under UltraTech Cement Ltd., Have the experience working in concrete mixes for challenging application and working with unique concrete construction, monolithic buildings, White Topping of bitumen road. Etc., I was also involved in various academic research work with MTech and PhD works in the field of Concrete and Concrete base Construction Works. Associated in several research works, experimental works in concrete construction with several agencies & organisations.

### Some Recent Professional Achievement

- **In charge of training of personel and quality assurance in construction of Cement Concrete Roads & White topping of roads in Ghorakpur, Uttar Pradesh**
- In-charge of training & mentoring of personnel for the “**White Topping Pilot Project @ Kharagpur West Bengal**” along with IIT Kharagpur.
- In-charge of the QA, QC & technology transfer/management of the White topping works happening in Bangalore city and other parts of Karnataka, projects in Hyderabad, Chennai and many other parts of the country.
- Involved in developing of **Concrete** used in **Monolithic Buildings**, was involved with several Karnataka state government agencies for construction these houses for economically weaker section & also with Karnataka state Police Housing Corporation in construction of Police quarters using this technology along with various contracting agencies from UltraTech Cement Ltd.
- Played a vital role as a researcher of questions and in formulating interesting rounds along with Grey Caps, who conducted the quiz “**UltraTech Stimulus Civil Engineering Quiz**” for South India.
- Involved in many projects that are done and being carried out for the relief work of landslide and flood across Karnataka from 3 years.

### Academic involvement

- **Member of Board Of Studies** – PESCE Mandya, AIT Bangalore, JSS Tech. University dept of Const. Technology, MITE Mangalore
- **Industry Advisor for department** - PESCE Mandya, VVCE Mysore, VCET Puttur
- I am involved with many institutions informally for training students, skill enablement in staff and students etc.,
- **Invited Master Trainer** for the skill in concrete, formwork, masonry materials at the **Bharat Ratna Sir M. Visvesvaraya National Training Facility for Skills For All (BMVNTFSA) D-3 Block, Visvesvaraya Technological University (VTU) Campus, Muddenahalli, Chikkaballapur – 562 103**

**I have Presentations & 1 day workshop in more than 15 topics that can be administered to students and professional in the field. One can request for the list by sending a Mail**

## Personal Information

**Date of birth** – 2<sup>nd</sup> October 1962

**Marital Status** – Married to Ms. Kirthimala since 1991

**Children** - I Have one daughter Ms. Anisha N. who is a Computer Science Engineer.

**Other love in my life** – Concrete Coffee & Crocodiles.

**My policy** “Any time is Coffee time”

### Hobbies:

- **Photography** –.
- **Crocodiles** are my interest in wildlife photography one of the very few following crocodiles in India. I am studying them for over 40 years including identifying them by their spike features.
- Macro Photography is a passion. My interest lies in collection of Macro - photos pertaining to professional requirement and wildlife
- Listening to Music – Carnatic Classical, Fusion and Jazz.
- Reading technical articles on Concrete and construction Technology.
- Imparting knowledge as a trainer.
- Long drives in my car, with music of my choice preferably alone.
- Information management

### Wishing to

- Keep sharing my experience and knowledge to younger generation who would like to learn and would work like a real civil engineer making hands dirty.
- Publish a coffee table book from my wildlife & nature photography may be couple of more publications.

### Connect Info:



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**NAGESH (ConCroc) PUTTASWAMY**



**ConCroc Nagesh Puttaswamy**



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## Publications and academic

### International Publications

1. **"Growing Popularity of Cement Concrete Roads (rigid pavements) Challenges for Concrete Technologists to give Sustainable, Greener Material – Paper 8<sup>th</sup> International Engineering Symposium (IES 2019) Japan**
2. **"INVESTIGATIONS ON COMPATIBILITY OF CEMENT-SUPER PLASTICIZER INTERACTION AND ITS INFLUENCE ON MORTAR WORKABILITY INCORPORATING IRON SLAG AS FINE AGGREGATE"** Co author of paper presented at 8<sup>th</sup> International Engineering Symposium (IES 2019) Japan
3. **"INVESTIGATIONS ON COMPATIBILITY OF CEMENT-SUPER PLASTICIZER INTERACTION AND ITS INFLUENCE ON MORTAR WORKABILITY INCORPORATING COPPER SLAG AS FINE AGGREGATE"** Co author of paper presented at CONCET 2018 international conference at Malaya university Kuala Lumpur, Malaysia 7-10 August 2018
4. **"STUDY OF THE BEHAVIOUR OF CONCRETE WITH GGBS ADMIXED AS REPLACEMENT FOR CEMENT"** Er. R Lalremruata and Er. Nagesh Puttaswamy Published by the International Journal of Civil Engineering Research. ISSN 2278-3652 Volume 5, Number 2 (2014),
5. **"CHALLENGES FOR CONCRETE TECHNOLOGISTS FROM MODERN CONSTRUCTION INDUSTRY."** Paper Co Authored with Mr. Shivram Bagade published in the ACECON 2010 International Seminar Held In Chennai in December 2010
6. **"GREEN HOUSE DESIGN SELCTION AND MAINTANANCE"** paper presented at "Flora 97" International Floriculture Show held at Bangalore.

### Other Publications

1. **"Demand for Early High Strength Concrete Challenges before RMC"** Paper Co-Authored with Dr. V. Ramachandra and Shivram Bagade published during the National Workshop on "Current Practices in Ready-Mixed Concrete" held in April 2007 at Bangalore organized by ICI – Karnataka Bangalore Centre.
2. **"Early High Strength concrete Advantages and Challenges"** Paper Co-Authored with Shivram Bagade published during the National Conference "Emerging Trends in Civil Engineering (ETCE\_2007) – May 2007 – Organized by SSIT Tumkur, this is a recommended study material in the Indian Railways Training Centre.
3. Have contributed informatory articles to the periodicals Published by the **"Karnataka Contractors Association"** keeping the non-technical contractors also in mind.
4. Published articles in magazines
  - **Constrofacilitator – cracks in slabs**
  - **NBM&CW** high early strength concrete,
  - **Built Construction on White Topping of Bitumen Roads.**
  - **Extreme weather concreting ACCE(I) Bulletin**

**Have been an Assisting as industry guide in several dissertation work by the final year engineering students – in the field of Structures and Concrete.**

1. Assisting as Industry guide for on going PhD project – **"Performance of Corrosion Inhibitors in Concrete for Chloride & Sulphates"** VTU Belgaum academy guide Dr.M T Prathap Kumar of RNSIT & Dr. Palani swamy of NITK – research scholar Ms. Apoorva faculty RNSIT Bangalore
2. Assisting as Industry guide for on going PhD project – **"Performance of Pavement Quality Concrete with Coarse Aggregate Replacement by Recycled Aggregates "** VTU Belgaum academy guide Dr.Dr. Bharathi Ganesh of NMIT Bangalore – research scholar Ms. Prathima faculty with NMIT Bangalore
3. Assisted as Industry Guide for the PhD work on **"Improving properties of concrete exposed to sea water by Partial replacement of cement & aggregates"** NITK Surathkal Karnataka, academic guide Dr. Rajasekharan NITK Surathkal, PhD awarded to Ms. Arpitha now Prof. at GAT Bangalore.
4. Industry guide for MTech Project "Comparative study of behavior of Monolithic structure and Framed structure subjected to Lateral earth load" – academic guide Dr. Rajasekharan NITK Surathkal – dissertation done by Er. Tilak Gowda NITK Surathkal.

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9. Industry expert for MTech Project “Study of workability & Strength of mortars using copper slag as partial replacement of fine aggregates” – academic guide Dr. Rajasekharan NITK Surathkal – dissertation done by Er. Tilak Gowda NITK Surathkal.

**Projects/dissertation/publications work handled as Industry guide for Masters & Undergraduate students**

6. Industry guide for MTech Project “Study of workability & Strength of mortars using steel slag as partial replacement of fine aggregates” – academic guide Dr. Rajasekharan NITK Surathkal – dissertation done by Er. Sudarshan NITK Surathkal.
7. Industry Guide along with Er, Anand Bhat – **“Recycling and Use of Sand from River Back Waters in construction – Experimental study”** Sahyadri Institutions Mangalore
8. **Conducting a series of studies on Concrete with cement being replaced by 70% and get early strength, durability & Green ratings, in the application of pavement concrete.** With students from NICMAR PUNE.
9. Industry guide MTech Project on **Green properties of concrete – with cement replacement by Slag in the of 50% and more. Studies done on the water demand, workability, and retaining of workability over a time** - at REVA university.
10. Industry guide for the M.Tech dissertation work **“A Study on the Behaviour Low strength structural concrete with partial replacement of cement by GGBS in reference with typical problems faced by RMC”** at PES College of Engineering Mandya.
11. Industry guide MTech project on **“Study of sulfate attack and behavior of M45 concrete made from OPC – PPC and PSC”** at MIT Manipal.
12. Industry guide for the BE dissertation work **“Study on the relation between permeability and strength of pervious concrete”** at Global Academy of Technology Bangalore.
13. Industry guide for the BE dissertation work **“Design of High performance M80 Concrete without Mineral admixture (no Micro Silica or no Metakaoline)”** at MVJ College of Engineering Bangalore.
14. Industry guide for the BE dissertation work “study of behavior of Laterite Masonry Arches in foundation” VCET Puttur Dakshina Kannada district Karnataka.

## Trainer Skills

Has been training Engineers from various organizations & students at Engineering colleges

- **Popularly identified as “ConCroc” in the quizzing Circle and also in the student community. Because of my involvement in Concrete & interest in Crocodiles**
- Have Been a **Trainer in training of artisans’ masons, engineers, and supervisors** to impart knowledge about the advances in Construction Field.
- Have designed and conducted several one day and two-day Workshop and training programme on Concrete Mix Proportioning as per the new IS Code 10262 -2009 now as per 2019.
  - Over 100 workshops done on Concrete Mix Proportion for construction companies, institutions and professional bodies.
- National Council for Cement & Building Material (NCCBM)– on Cement concrete roads, construction, QA & QC
- Karnataka PWD, KRRDL, & their Contractors for concrete and concrete road construction.
- Many engineers from projects through Indian Road Congress workshops on Concrete roads and white topping works.
- One day hands on training for QA & QC engineers in various companies, Engineering colleges regarding Concrete Mix proportion as per IS Code of practice. The key in this program is orienting every one to think & tweak the concrete mixes to get desired concrete.
- **Trained 40 construction workers in Dubai for M/s California construction company in masonry and scaffolding formwork skills to upgrade them to higher responsibilities** as a part of INSTRUCT Training team in the year 2015. The trainees were from India, Pakistan, Bangladesh & Srilanka
- Was instrumental in formulating the one weeklong Mason Training Program for enhancing the skills of field workers to make them technically better workers. This Involved:
  - Working out a detailed syllabus, multimedia training material in vernacular language. Theory and practical classes.
  - The Training program is success story for M/s UltraTech Cement Ltd., with over 10,000 Masons being trained in Karnataka, Andhra Pradesh.
- Regular trainer at the orientation programs conducted by various professional bodies and colleges for the final year Civil Engineering Students.
  - Concrete and Concrete Making Materials
  - Reinforced Concrete and detailing of RC members.
  - Shuttering Formwork and Scaffolding safety in construction work.
  - Recognized Expert trainer to train the trainers by Govt. of Karnataka Construction workers Labor welfare department.
- **Special one day module on Presentation skills Using PowerPoint** for working Engineers & Engineering students
- **As stress buster I get involved in Weekend teaching for Engineering Students subjects related to Concrete and deliver motivational talk, team building work for students.**
- **Passion to do training for field workers especially skill improvement & skill development to help upgrading the life of not so educated workers in construction field.**

**Recent addition to my training programme - in response to the ONLINE classes’ challenges.**

*Enhancing Presentation Skills in the virtual era*

*A hands-on skill enhancing program*

**Utilizing the Best of the presentation tools & skills to hold the attention of audience be a better Presenter**