



*Purpose Fuels Passion...*

# STHAPATYA

*Magazine*

EDITION - II  
OCTOBER 2018

**CIVIL ENGINEERING STUDENTS ASSOCIATION  
MIT AURANGABAD 2018**



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# OUR INSPIRATION



**BHARAT RATNA**

**SIR M. VISVESVARAYA**

**15th Sept.1860 - 14th April 1962**

Sir Mokshagundam Visvesvaraya, the towering personality in the history of Indian Engineering community was born on 15Sept,1860 at Muddenhali village in kolar District of Karnataka. Graduated from College of Science Poona (now C.O.E.P) in 883. Visvesvaraya joined the Bombay P.W.D. and rose to the position of Chief Engineer.

He worked consistently throughout his life to bring the fruit of advanced science and technology to the doorsteps of a common man. Visvesvaraya realized that there could be no salvation for the people of the country except the judicious use of technology. He was honored by presentation of the country's highest Award- BHARAT RATNA IN 1955.

# CESA MANAGING COMMITTEE



Φ **Head Student Coordinator:**

Φ **Co-Student Coordinator:**

Φ **Secretary Cum Treasurer:**

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Φ **Cultural Coordinator:**

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Mohammad Zulkarnain Fahimuddin

Shubhangi Namdeo Giri

Vishal Laxman Waghmare

Vijay Amrutrao Bhaske

Shubham Surendra Jane

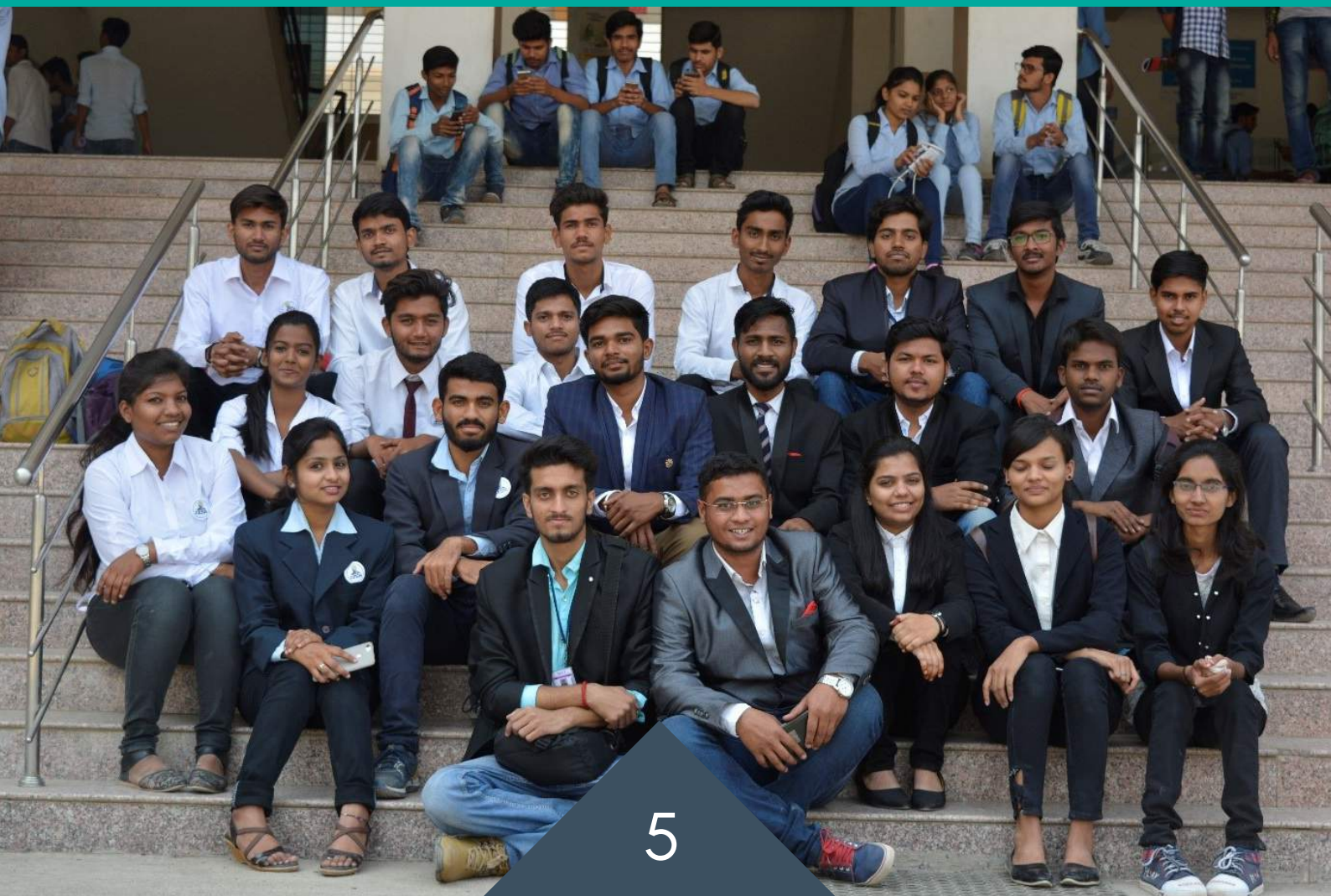
Jaykumar Sagar More

Shubhangi Vishnu Bangale

Aditya Narayanan Kumar Peddi



# CESA STUDENT BODY





# Message from H.O.D



Let me start with congratulating the team behind this e-magazine. I was told that this e-magazine is a product of combined efforts of many civil Engineering students and guidance of faculties. As with everything that we do in our life, here too is a purpose to fulfil with this magazine.

The purpose here is quite simple and obvious, let our students and faculties have a go with writing and express themselves with their out-of-box and critical thinking. And I am very happy to see many quality articles & arts that this Oct'18 edition of STHAPATYA contains.

There are many ways that a departmental magazine will be useful. It encourages us to think, form thoughts and write. In fact, most students find their first exposure through such magazine. However, one more thing that I would like to see in our next edition is some contribution from our alumni of Civil Engineering department.

I am sure that as this magazine evolves further, it will implant new styles of writing, cover wide range of topics and form a platform to share ideas, experience & exposure between current students and alumni.

*Writing is the frame work of our communication,  
Reading is the key to our success in education and in life.*

Best Wishes

**Dr. Sumeet Jaiswal**

**Head**

**Department Of Civil Engineering**

## Department Site Visits



*BTECH - First shift (Visit to Krishna Raj Sagara Dam, Bangalore)*



*Third year - First shift (Visit to M.E.R.I, Nashik, Maharashtra)*





*Third year - Second Shift (Construction site by Khivansara group, Aurangabad)*



## Student's Achievements



**Gayatri Belsare, Shraddha Patil, Shubham Jane, Shital Salve**

presenting their poster effectively secured 2nd position in Technical Poster Presentation held in March 2018

**Gayatri Belsare, Shraddha Patil, Shubham Jane, Shital Salve**

Got 3rd prize in technical poster presentation held at MIT(T) in March 2018.



**Shaikh Ateeque, Mohammad Zulkarnain and krishna Dudhmal**

Stood 3rd in Technical Poster Presentation held at MIT(T) oragnized by CESA.





Hard work, Dedication and self-motivation were the skills these girls inculcated into themselves while working under JAL YUKT SHIVAR YOJANA. **Sushmita Deshpande and Gayatri Belsare** successfully completed third party assessment of Gangapur taluka.



## Shweta Shirodkar

Being a well trained gymnast once again she proved herself and let her performance to speak for her by conquering 3 Gold and 1 Silver Medal in Inter-College Gymnastics Tournament 2018





Spending his 3 precious years to learn this sacred art of flute playing. **Adwait Gite** mastered this art. His dedication showed its way, He successfully became the part of band The Grooming beats of Aurangabad. Besides being flutist in a band, Adwait keeps performing in various open mics, public events etc held in Aurangabad.



Inspite being physically unfit **Kshitij Manohar Patil** fought for his team at SUMMIT 2018 held in Pune. Though he was not able to play offs still he engraved his name on the trophy of Man Of the Tournament. Also he the only cricket player from MIT(T) who played for AIUT.

# PATHWAY TO BECOME AN OFFICER IN INDIAN ARMED FORCES: SSB INTERVIEW

Once you know why you want to join Indian Armed forces, you will find your way to join it. Before starting this journey of defense aspirant it is mandatory to know and convince yourself fully that why you want to join Indian Armed Forces. This article is a guideline of SSB (SERVICE SELECTION BOARD) interview which you have to crack mandatorily.



*“A hero is an ordinary individual who finds strength to persevere and endure in spite of overwhelming obstacles.”*

*-Christopher Reeve*

A career in defence forces promises one of the most prestigious and respected positions in the country. Youngsters who aspire to choose a career of excitement, adventure, and challenges can find no better place than defence to meet all their professional expectations.



The Indian Armed Forces are the military forces of India which consist of four professional uniformed services: The Indian Army, Indian Air Force, Indian Navy and Indian Coast Guard. The various paramilitary organisations and various inter-service institutions also help the Indian Armed Forces. The Ministry of Defence is responsible for the management of armed forces in India.

The Indian Armed Forces symbolize the ideals of service, patriotism and composite culture of the country. Recruitment to the Armed Forces is voluntary and open to all citizens of India irrespective of caste, class, religion and community, provided the laid down physical, medical and educational criteria are met. If you have dream to serve your motherland, if you are willing to even die for this country the career as an officer is the best fit for you.



There are a variety of pathways to a commission as an officer in Indian Armed Forces. This applies to both for civilians (after 10+2, graduation and post-graduation), as well as for serving armed forces personnel. All except army medical corps members must succeed in the "SSB interview". There is no limit to the number of attempts that can be made. The interview involves a battery of psychological tests of personality, to assess the candidate's suitability for commission to the armed forces. The tests help the SSB select candidates with officer like qualities ("OLQs"). The Services Selection Board is not concerned with the number of commissions available. Its responsibility is just to assess and then, recommend.

Successful candidates have a medical examination and if satisfactory are recorded on a "merit list" before training and commission.

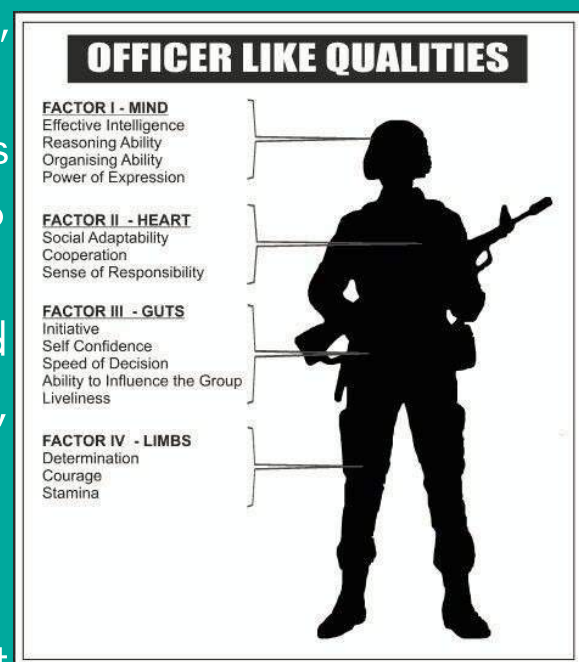


**Abbreviations:** 1 CDS – Combined Defence Services Exam, 2 AFCAT – Air Force Common Admission Test, 3. DE- Direct Entry, 4. IMA- Indian Military Academy, 5. OTA: Officer's Training Academy, 6. INA: Indian Naval Academy, 7. AFA- Air Force Academy

The selection occurs over a five day process.

Day 1 involves a screening test , Day 2, psychological tests, Days 3 and 4, group tasks, and Day 5, compilation of results

In Conference. A personal interview is also included during the selection period. The qualities looked for in the selection period include intellect, responsibility, initiative, judgement under stress, ability to reason and organize, communication skills, determination, courage, self-confidence, speed in decision making, willingness to set an example, compassion and a feeling of loyalty to the nation.



The candidates are billeted during the selection period and complete the assessment in a group with other candidates. Observations of the group are constant.



This system of selection is based on the “trait theory” of leadership which assumes that every leader must have some specific and pre-determined leadership traits.

It also presumes that such traits can be acquired by a candidate with the passage of time meaning thereby that a person once rejected in an SSB interview is likely to succeed if he acquires some of the traits with the passage of time. The present system of selection, although is long and takes four to five days, is thus based on an objective assessment of each candidate in which the qualities like initiative, alertness, judgement, courage, physical fitness endurance, cooperation, group planning, decisiveness, knowledge, etc. are judged. In addition, psychological and mental robustness of the candidate vis-a-vis requirements of the Armed Forces is judged and finally an overall assessment of the personality of a candidate is made by way of an exhaustive personal interview. The testing Schedule of all five days in SSB interview is Stated Below:

### **D- Day : Reporting :**

On the day of reporting candidate have to reach at the respective SSB centre. Candidate gets instructions from the authorised personnel. Then each candidate receives a PIQ (Personal Information Questionnaire) and TA (Travelling Allowance) form (Only for the candidates who are applying for the same kind of entry first time). Then required documents of the candidates get verified. Once document verification completes, each candidate allotted a chest number and He/She will have to wear it throughout the selection procedure.

### **Day 1: Screening Test:**

Screening Test comprises of following two sub tests:

### **A. Intelligent Quotient (IQ) Test:**

IQ test includes the questions of Verbal and Non-verbal ability. The question set includes around 38 to 90 questions and time allotted is around 20 to 45 minutes depending on the difficulty level of the questions.

### **B. PPDT (Picture Perception and Description Test):**

The test comprises of two steps. 1st is PP (Picture Perception) and second is DT (Description Test). In 1st step a Picture which is hazy or clear is shown to the candidates for 30 seconds and asked them to write down a story in 4 minutes based on the perception of the picture. In 2nd Step, the candidates generally divided into a group of 20. Then each group is called in front of assessing officers' panel and made to sit in group. Then each candidate has to narrate the story he has written one by one. Then the group is instructed to start the Discussion. The group have to discuss the stories and suppose to come at a common group story.

Once the entire candidates have undergone the Screening test, the result of screening test is declared. The candidates who qualified stays for the further tests and remaining candidates are allowed to return to the home on same day.

Screening test is the first test in SSB interview. As name itself suggests the test select candidates for the further interviewing process. In order to clear the SSB interview, candidates have to get screened in or simply get selected in screening test.

#### **Day 2: Psychological Test:**

On second day, candidates are undergone through psychological test. Psychological Test includes following tests:



### I. Thematic Apperception Test (TAT):

In this test, candidates are shown 12 pictures including 1 blank picture for 30 seconds and allowed to write story based on the perception of the picture for 4 minutes. Hence the flow of the test is 30 seconds to see the picture and 4 minutes to write the story. The last picture is generally a blank slide which is displayed for 30 sec. and candidate is supposed to write a story of his/her own imagination.

### II. Word Association Test (WAT):

In this test, candidate is shown 60 words back to back for 15 seconds each. Candidate is expected to write the first thought in mind about the word in the form of a short sentence either in English or Hindi.

### III. Situation Reaction Test (SRT):

In this test Candidate is allotted a booklet of 60 situations and has to write his/her reaction in the answer booklet for each situation. 30 minutes are allotted to write responses of 60 situations.

### iv. Self-Description Test (SDT):

In this test candidate has to answer of 5 questions asking about parent's, teacher's, friend's and your own perception about himself/herself.

## **Day 3 and Day 4: Group Testing:**

In the two days of Group Testing following tests are conducted:

- i. **Group Discussion:** Group of Candidates have to discuss on one topic allotted by Group Testing Officer (GTO).
- ii. **Group (Military) Planning Exercises:** In this test a model and a series of situation is shown to the candidates and a set of problems is given to them. Candidates are required to discuss the situation amongst them and arrive at the common solution to the set of problem.

- iii. **Progressive Group Tasks:** Set of four obstacle are put in front of the candidates . The obstacles are progressively difficult. The obstacles are to be completed in 40 to 45 minute.
- iv. **Small (Half) Group Tasks:** The group is divided into two in this task and each group have to complete the set of obstacles.
- v. **Group Obstacle Race: (Snake Race) :**  
In this task, the different groups of candidates are made to race against one another over a set of 6 obstacles. The group also have to carry a tent rolled into a shape of huge snake. Whichever group comes first wins the race. There are certain principles and rules which must be followed by the groups as well as candidates individually. If any violation of the rules occurs by the group or the individual candidate, the whole group will be panelised by the GTO.
- vi. **Lecturette :** In this task, each candidate have to deliver a 3 min speech on a topic chosen from the set of topics by the candidate.
- vii. **Individual Obstacles:** In this task, there are total 10 obstacles which a candidate has to tackle individually in 3 minutes.
- viii. **Command Task:** This task is similar to PGT or HGT. The only difference is each candidate is given an opportunity to become the leader of a group of his/ her own choice. The candidate has to command the group in order to finish the task or obstacle.
- ix. **Final Group Task :** This is similar to PGT.

**Personal Interview:** The interviews of the candidates are held on day 3 and day 4 of SSB interview simultaneously.

### **DAY 5: Conference Day:**

Conference is held on final day of SSB stay. It is an event in which generally officer members of you SSB Board (President, Dept. – President,

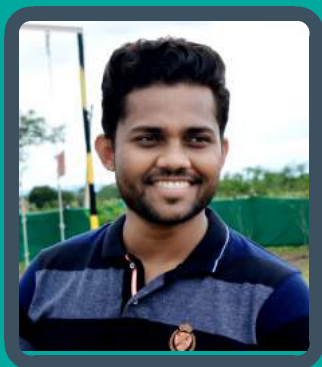


Dept. – President, GTO, Psychologist and Technical Officers, Interviewing Officer) are present. All the officers are present in the conference in formal uniform and they ask each candidate a set of general question.

After the conference, all the candidates are directed to go to the lunch. After the lunch, and come back with respective bags packed. Then the Technical officer gives a small motivating speech. After that the officer will announce the chest number of the successful candidates. Those who are selected, stay there for the medical test which lasts for 3 to days. Other candidates will be asked to go to their respective home.

After medical test, medically fit candidates are recommended and final merit list displayed on the website.

SSB interview is one of the most scientifically designed interviews in the world. It is designed by Defence Institute of Psychological Research which is a branch of DRDO (defence Research Development Organization). In order to succeed in this interview a candidate should have deep understanding about himself/ herself, good physical fitness, General awareness (things happening around you, about your stream of education and current happenings). It is an career which you can choose to serve the country with proud as well as to have an adventurous and respectful and financially stable life. Good luck.



**Prof. Mahesh S. Bankar**

(Cracked SSB interview Twice 2017, 2018)

Assistant Professor,

Civil Engineering Department, MIT(T), Aurangabad

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Email : msbankar365@gmail.com, Mahesh.bankar@mit.asia

## Artist Katta



- Samruddhi Bhandarkar



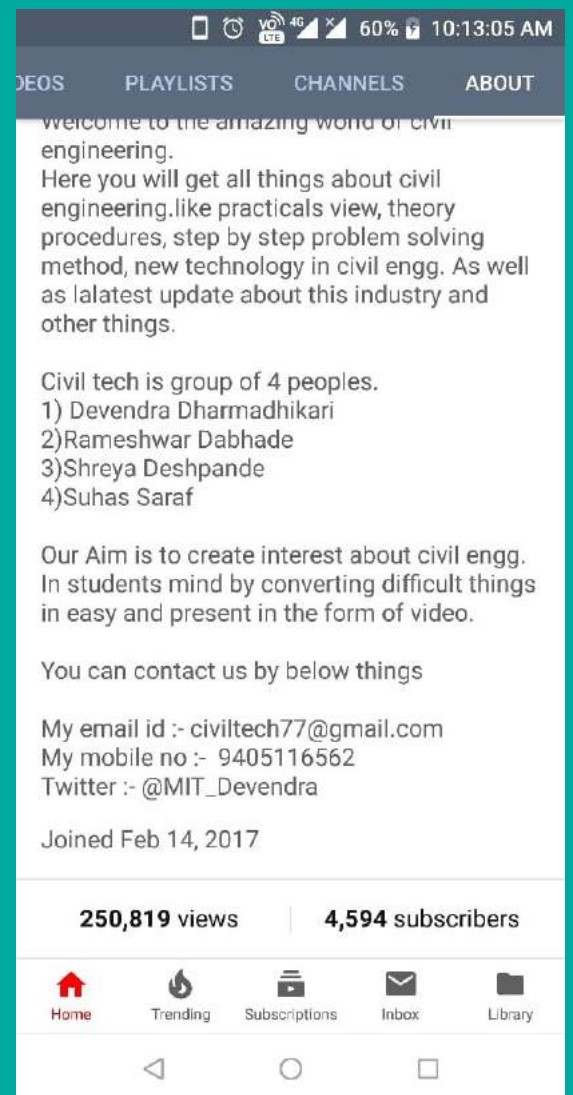
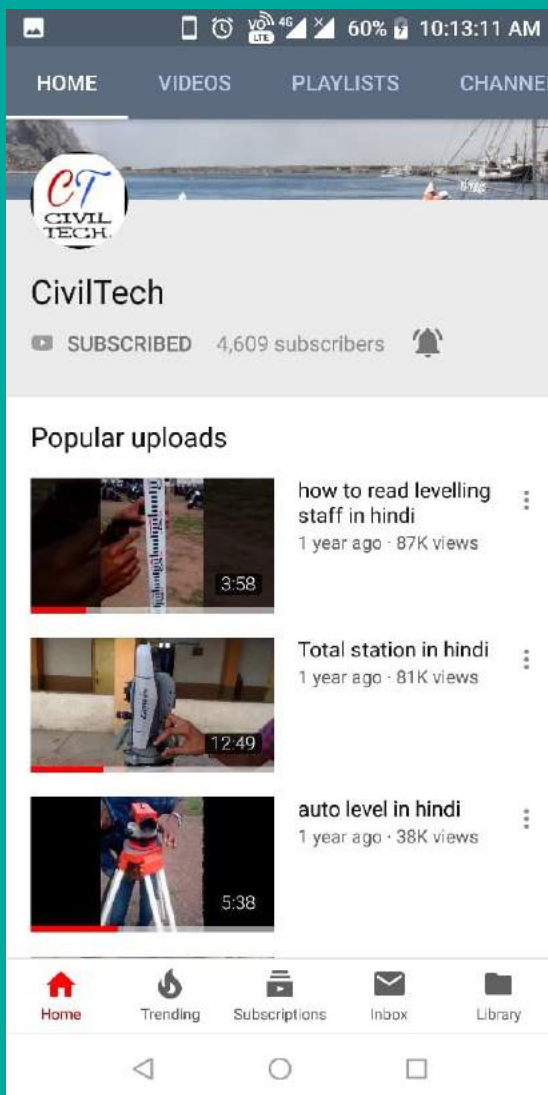




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- **Abhishek Sahane**

**Instagram:** @\_ab\_artography\_



Civil tech is a Youtube channel which updates you about latest updates in Civil engineering. Besides that it also deals with practical processes, problem solving and all other things related to Civil Engineering.

- **Devendra Dharmadhikari**



- **Kshitija Joshi**



## आयुष्य

कोणत्या तरी कोणाच्या तरी  
बाहुपाशात नाही गुंतून पडायचे ...  
हार न मानता यशाचे खेचायचे  
यशाची पायरी तशी मुश्किल आहे थोडी...  
पण यश लागता हाती मग लागते गोडी...  
मग कोणाच्या तरी स्पर्शाने  
होऊन जायचे मधुर ...  
विसरून सर्व जगाला  
जायचे फक्त मोहून  
प्रेमातील या गोष्टींना  
कधीही न विसरायचे  
शक्य तोवर जीवन  
आनंदी घालवायचे  
मग बंधन जुळेल तवे  
नाही म्हणून टाळायचे  
होऊन आपल्या प्रेमाशी  
जीवन सांगिनी व्हायचे  
एकत्र ठेवुनी विश्वास  
पुढे पुढे सरकायचे  
शेवट पर्यंत देउनी साथ  
शेवटी मात्र वेगळे व्हायचे ,तुटायचे  
जे सर्वांचे प्रारब्ध आहे..

-सुदर्शन खुरमुरे

मी प्रेम करत आहे...

सायंकाळच्या चौपाटीवर...  
स्वप्रातही अजून तुझाच वास आहे  
समुद्राच्या शिथिल पाण्यावर तुझ्या  
अवखलपणाचाच भास आहे

तू ये कधीतरी भूतकाळातून वर्तमानात..  
तुझी मला अजूनही वाट आहे  
कोरड्या पापण्यांच्या कडांवरती अजुनही  
आसवांची लाट आहे

एकदा बोलुन देत मला तू वर्तमानात  
नाहीस तर भूतकाळातच ऐकुन घे  
जरी अशक्य आहे तरीपण सागराला  
क्षितिजास भेट दे

कधीतरी वाटते की वेड लागले  
पण छान वाटते तुझ्याशी खोटा परिसंवाद  
करून तु नाहीस तरी काय झाले तुझ्या  
आठवणीतच आतापर्यंत कुडत आहे

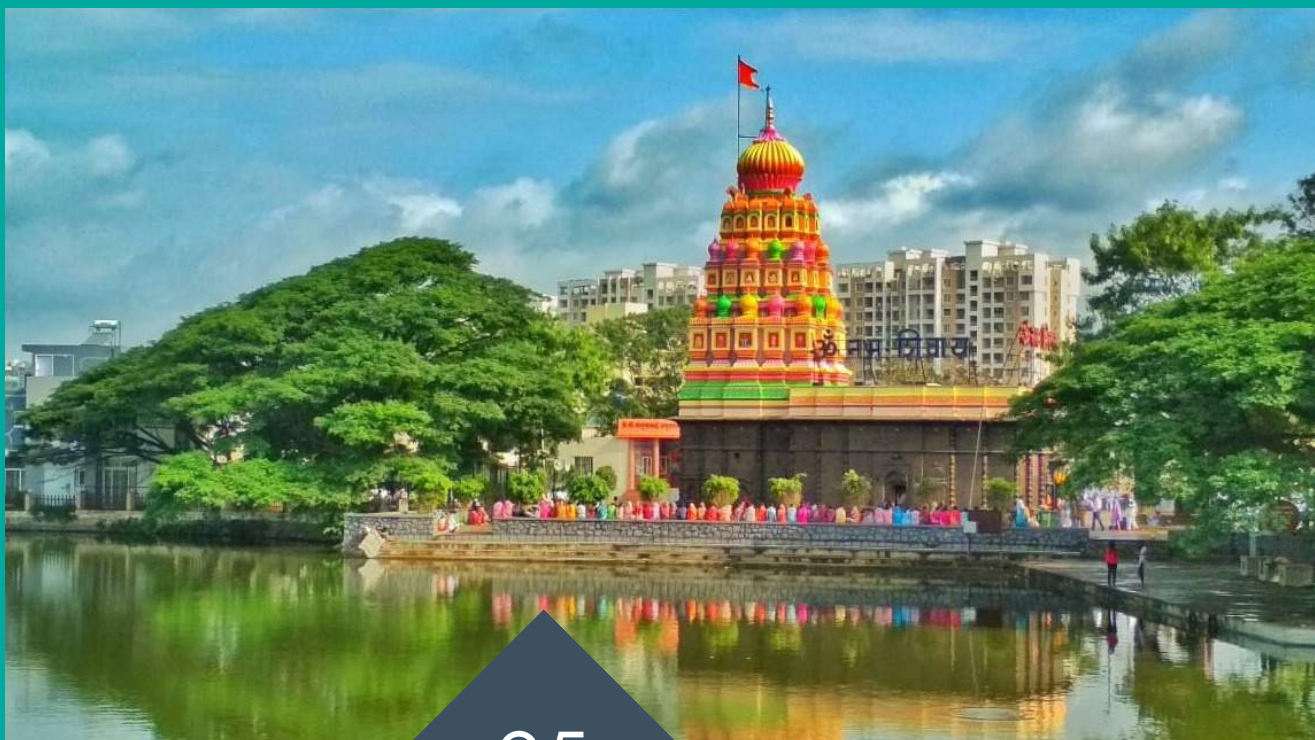
भरून येतील डोळे  
वाईट वाटेल थोडसं,  
निरोप तुझा घेताना  
होईल काहीस असं...  
तुझ्या अस्तित्वशून्या वरच मी प्रेम करत आहे...

- श्याम अनिल मेहेरकर

# PHOTOGRAPHY



- Shubham Rathod



25

- Shyam Meherker



# CESA CULTURAL

## SPANDAN 2018, A musical night by Aarooha



**Shreya Deshapande, Kshitija Joshi, Shubhangi Pawar and Shyam Meherkar** with their great performances in "Spandan" a musical night by Aarooha group of MIT contributed their share for the huge success of the program.

Shreya Deshpande and Shubhangi Pawar singing a folk song created cultural vibe whereas Kshitija Joshi with her power-packed Lavni created the atmosphere of amusement. Being a Tabla player, Shyam Meherkar put up in almost every performance.

## Tarunyabhan 2018



Tarunyabhan is one of the best workshop arranged by MIT every 2 alternate years. The great thing about workshop is, In total Marathawada Region it is only held in MIT. This workshop is guided by Padmashree. Dr. Rani Bang. It empowers the youth specially adolescents by dealing with issues of that age. Below is a diary page from diary of one of Tarunyabhan's co-ordinator Shreyas Deosarkar.

Today 15 August 2018 our Independence Day. Actually, for me, this day is a very memorable day ever. After the arrangement of Tarunyabhaan, I went back home at 11 am around. Trishul Kulkarni sir told me that Dr. Rani Bang (Aamaa) and the team will be here at 7 pm in the evening. Since then I was eagerly waiting for 7 pm. My reaction was like 'when this clock shows 7 pm'?



As my watch shows me time at 6 pm, I started checking my watch every after 5 min again and again. I had a very strong wish to meet Aamaa. Since 2015 she became my idol personality. I still remember at the end of the programme of Tarunyabhaan of the year 2015 Aamaa said' This is not an end of the programme but it is a beginning of our relationship. You all are always welcome at search Gadchiroli. Literally, I had tears rolling down my cheeks at the same time.

Now, After three years, I am so fortunate that I got chance to meet Padma Shri Dr. Rani Bang (Aamaa) and I am coordinating Tarunyabhaan this year. I even can't imagine, I could get a chance to meet Dr. Rani Bang (Aamaa) in my whole life. I am very fortunate to have a little interaction with Padma Shri Dr. Rani Bang.

A lady who is post graduated from the topmost university of Doctors, and still working for needy people without charging a single coin, A lady who is working so hard to make a change in Indian youth, A lady who is the founder of Search, Gadchiroli. A lady who is awarded as a Padma Shri and many more awards. Just imagine how she could be???

I know everyone is imaging something else but let me tell you how she is? She is a very simple lady. Yes, she is. "Aamaa, this is our coordinator and he is handling this all of the student entries" Trishul Kulkarni sir introduces me to Aamaa. I touch feet of Aamaa. She first asks me "tuz nav kay ahe beta?" "Shreyash Aamaa" I replied. And even though when the servant come up with tea, she asked me for having tea also.



"Are ghe re apan sagale family ch ahot."

Really she is very simple. Once in a life just meet her, just listen to her thoughts then you will come to know, how was my reaction? When I met her and why I am writing this much, even when I don't have words to express my feelings. I learned the something which is very rare in such little conversation. I am so lucky that I got blessings from my idol aamaa.

From tomorrow the actual programme will start and I will get a chance to listen to her thoughts again.

## Editorial Team

- **Sourav Singh (B.Tech FS)**
- **Vaibhav Kulkarni (TY SS)**
- **Piyush Raut (TY SS)**
- **Nikhil Ingole (TY FS)**
- **Mansi Gorakh (TY SS)**
- **Omkar Kulkarni (TY SS)**
- **Komal Raut (TY SS)**

Students are requested to send their articles for next issue of Magazine on our official e-mail Id: **Cesamit3@gmail.com**



### Disclaimer

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# Civil Engineering Students Association MIT (T), Aurangabad