



DEPARTMENT OF CIVIL ENGINEERING

13 Sept. 2024
Issue 3 IV

ABOUT THE DEPARTMENT

The department of civil engineering was started in the academic year 2008-2009 with an aim of promoting high quality education of civil engineering in rural area. The department currently offers diploma in civil engineering (DCE) program following the MSBTE curriculum. The teaching is assisted with digitalized presentation for better understanding of the students. Industrial visits are arranged for students to gain practical experience.

VISION-

Transform rural undergraduates into a aspirant civil engineer to enhance economical level and acquire a status in society.

MISSION-

- ◆ To develop & maintain dedicated faculty members who are committed to maintain learner centered environment with emphasis on student mentoring.
- ◆ To promote quality education with professional skill for industrial and social needs.
- ◆ To imbibe moral & ethical values among civil engineering students.



दिवन टॉवर

दिवन टॉवरचे मालक:-आरके अरोरा.
(आर के अरोरा हे हरियाणा, दिही, उत्तर प्रदेशमधील रिअल इस्टेट भांडवलदार आहेत) आरके अरोरा बांधकाम कंपनीचे नाव:- सुपरटेक प्रा. लि. दिवन टॉवर प्रकल्पाची एकूण किंमत ८०० कोटी आहे. दिवन टॉवर प्रकल्पाचा पत्ता: नोएडा, उत्तर प्रदेश नोएडा: सर्वोच्च न्यायालयाच्या आदेशाचे पालन करून स्फोटकांसह सुपरटेक दिवन टॉवर्स पाडण्याआधी, नोएडा येथे, शनिवार, २८ ऑगस्ट २०२२ सुमारे १००-मीटर-उंची संरचना पाडण्यासाठी ३,७०० किलो पेक्षा जास्त स्फोटकांचा वापर केला आहे. दिवन टॉवर जमीनदोस्त करणाऱ्या कंपनीचे नाव या:-एडिफाई इन्जिनियरिंग असे आहे. आता दोन्ही टॉवर पाडण्यात आले आहेत आणि सर्वोच्च न्यायालयाच्या म्हणण्यानुसार टॉवर पाडण्यात गुंतलेल्या एजन्सींना २० कोटी रुपये पाडण्याचा खर्च दिला होता, एकूण खर्चापैकी, सुपरटेक सुमारे ५ कोटी रुपये भरत आहे आणि उर्वरित सुमारे १५ कोटी रुपयांची रक्कम मोडतोड विकून वसूल केली जाईल, जे ४,००० टन स्टील आहे. मूळ प्रकल्पाची किंमत हि ८०० कोटी होती, परंतु आतापर्यंत झालेल्या कामाची किंमत ही ५०० कोटी रुपये होती त्यामुळे आर के अरोरा कंपनी ला ५०५ कोटीचा तोटा झाला आहे. "सुप्रीम कोर्टाने शोचते पाडण्याचे आदेश दिल्यानंतर २८ ऑगस्ट रोजी जुळे टॉवर भंगारात आणले गेले" दिवन टॉवरचे बांधकाम हे अनधिकृत होते ते दोन टॉवर हे ग्रीन पार्कच्या जागेत उभे करण्यात आले होते. शासकिय नियमाप्रमाणे दोन बिल्डींग मधील अंतर हे १६ मीटर हवे होते. परंतु त्या दोन मधील अंतर हे ९ मीटरच होते. त्यामुळे ते दोन टॉवर पाडले गेले.

MESSAGE FROM CHAIRMAN



Hon. Rohan Paricharak
(Trustee)

It is really a matter of pride and satisfaction to witness release of Brick by Brick, a newsletter of KIT's (Poly) Department of Civil engineering. Certainly it requires tremendous efforts to showcase students' talent in all aspects of curricular and extracurricular areas. Efforts behind newsletter and its continuous sequel every year deserve tons of appreciation. I believe that this issue will generate positive vibes among students of the department and will trigger creative thinking. I wish all of you The Best of Luck. Thanks!

MESSAGE FROM PRINCIPAL



Dr. Kanase A.B.

Its great pleasure to congratulate for such excellent and well-rounded extracurricular activity, the newsletter. I am very happy to know about release of next issue of Brick by Brick, a newsletter of department of Civil Engineering, KIT (Poly). It provides students with essential information as well as it creates a way for them to develop and streamline their various skills, nurture their personalities and character. I wish All the Best to all of you.

PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

- PEO1: Under Graduates will be actively engaged in a professional career as a civil engineer.
- PEO2: Under Graduates will be able to become entrepreneur & will provide employment.
- PEO3: Under Graduates will be able to use their fundamental knowledge to pursue higher Education & will continue his professional development.

OUR ACHIEVERS

First Years Civil



Aniket Bhosale
70.21%



Shivam Deshmukh
70.11%

Second Years Civil



Payal Pise
87.38%



Plyusha More
72.75%



Sangharsh Lubal
68.96%

Third Years Civil



Sanket Galkwad
89.55%



Ganesh Chavan
88.33%



Ujwalla Bansode
85.11%

Select & Design the Best Treatment Process for Integrated Waste Management of Pandharpur City.

ABSTRACT

waste! Is really waste is problem for us? If we see the waste sprayed at some place at that time we realize waste is a problem. When we felt bad odor of waste then at that time we realize waste is a problem. But the question is still there waste is real problem? We think that WASTE IS NOT A PROBLEM THE REAL PROBLEM IS MANAGEMENT OF WASTE. We cannot avoid waste we can just solve problem by managing it properly. By traveling through the Pandharpur city we observe lot of dirt is there. When we realize that problem then we decided to find the reason behind it. After some study we realize that waste is not managed properly in Pandharpur city.

Paper Published by : Ganesh Chavan, Saurabh Wagaj,
Ganesh Pawar, Kisan Galkwad.



Subject Topper



Sanket Galkwad
70/70
Advance Design Structure
(ADS)

OUR PLACEMENT



Sahil Mulani



Ganesh Chavan



India overtakes U.K. to become fifth largest economy in the world With record beating expansion in the April-June quarter, the Indian economy has now overtaken the U.K., which has slipped to the sixth spot. The assumption of India overtaking the U.K. is based on calculations by Bloomberg using the IMF database and historic exchange rates on its terminal. "On an adjusted basis and using the dollar exchange rate on the last day of the relevant quarter, the size of the Indian economy in 'nominal' cash terms in the quarter through March was \$854.7 billion. On the same basis, the U.K. was \$816 billion," stated a Bloomberg report. With India being the world's fastest growing major economy, its lead over the U.K. will widen in the next few years. "Proud moment for India to pip the U.K., our colonial ruler, as the 5th largest economy: India \$3.5 trillion vs. UK \$3.2 trillion. But a reality check of population denominator: India: 1.4 billion vs. UK 0.068 billion. Hence, per capita GDP we at \$2,500 vs. \$47,000. We have miles to go... Let's be at it," Uday Kotak, CEO of Kotak Mahindra Bank, said in a tweet. India has a population 20 times that of the U.K. and so its GDP per capita is lower."We just became the 5th largest #economy in the world, surpassing the U.K.!", tweeted Anil Agarwal, chairman of mining giant Vedanta group. "What an impressive milestone for our rapidly growing Indian economy... In a few years, we will be in Top 3!" India's GDP expanded 13.5% in the April-June quarter, the quickest pace in a year, to retain the world's fastest growing economy tag but rising interest costs and the looming threat of a recession in major world economies could slow the momentum in the coming quarters. Gross domestic product (GDP) growth of 13.5% year-on-year compares to a 20.1% expansion a year back and 4.09% growth in the previous three months to March, according to official data released earlier this week. The growth, though lower than the Reserve Bank of India (RBI) estimate of 16.2%, was fuelled by consumption and signalled a revival of domestic demand, particularly in the services sector.



The department of Civil Engineering of Karmayogi Institute of technology,shelve, Pandharpur, was organized a educational visit on Railway station at Pandharpur. on 13th April 2022 for SY and FY Civil engineering students. Visit was organized with prior permission and guidance of our department Mr Korabu I.J. and class teacher Mr. Dongare M.V. and Mr sapakal... guided all the students during this visit.

Mr. Satendra Kumar who was a senior section engineer of that station ,who guided us a lot and gave us a lot of information about the railway, it's components parts and then how they do maintenance of railway station and in how many days also. Mr Ramachandra ghule who was a trackman of that station . They showed us that how they inspecting tracks for defects, and replacing or repairing such things as worn or broken rails, switch ties, spikes and rail anchors. However our visit was over and Even during the visit we got to know about the rails and how the wave theory works on it and how it gets corroded.

MAHA METRO VISIT



Maha Metro Visit Date 19-05-2022

According to the syllabus of Civil Engineering, we need to give our students industrial exposure. So we had arranged industrial visit to the most renowned project in India Mahametro project, Pune (Maharashtra Metro Rail Corporation Limited.) We three faculty members and 40 students have visited this project on May 19, 2022.

The location of site was Swargate- Pimpri Chinchwad Metro project site. Mr. Dongare S. (Senior Quality Engineer) Gulermak and TATA Projects Ltd. Pune Metro Joint Venture had guided us with the detailed information about underground tunnels (30m below the ground level), procedure of construction, and the Tunnel Boring Machine (TBM).

INPLANT TRAINING



Inplant training is a short duration training course for students to develop their skills and get industrial knowledge which will help you to understand what is actually happens in industry. Inplant training is important for Engineering students as it gives industry exposure to them while studying. The students will learn the Basic knowledge of civil engineering, vaasthu planning, important calculations In Plant training for civil engineering to give exact enhancement of Practical knowledge for civil students Here we are there to help you to find a way to have beautiful career a head to reach more heights of success and more heights of happiness by seeing your success in all the places Civil engineering field is the best in all over the world that has leded may life's to give a way to have success in lifewith this course we are very happy to say that you will be successful civil engineer In all the related areas in your concern. We had Our In-plant Training from 4th July to 16th August.

75 आज़ादी का अमृत महोत्सव



भारतीय नौदलाला आता नवीन ध्वज मिळाला असून वसाहतवादाचा भूतकाळ या ध्वजामुळे दूर होणार असून यामुळे आता भारताचा समृद्ध सागरी वारसा जगासमोर दिसणार आहे. आता सर्व युद्धनौका, ग्रांड स्टेशन आणि नौदल एअरबेसवर नौदलाचा ध्वज फडकताना दिसणार आहे. नवी दिल्ली: आजपर्यंत भारतीय नौदलाच्या (Indian Navy) ध्वजावर गुलामगिरीचे प्रतीक दिसत होते, ते आता काढला जाऊन आज 2 सप्टेंबरपासून भारतीय नौदलाला नवा ध्वज (New Flag) मिळत आहे. भारतीय नौदलाला आता नवीन ध्वज मिळाला असून वसाहतवादाचा भूतकाळ या ध्वजामुळे दूर होणार असून यामुळे आता भारताचा समृद्ध सागरी वारसा जगासमोर दिसणार आहे. या नव्या ध्वजाच्या अष्टकोनी बोधचिन्हाच्या खाली देवनागरीत 'शाम नो वरुण:' असे नाव कोरलेले आहे.

नवीन ध्वजाचा अर्थ?

भारतीय नौदलाच्या ध्वजामध्ये झालेला हा बदलाबदल पंतप्रधान नरेंद्र मोदी यांनी सांगितले की, आपल्याला गुलामगिरीचे प्रतीक हटवायचे आहे. आतापर्यंत चालत आलेला ध्वज पाहिला तर त्यामध्ये असलेला क्रॉस हा ब्रिटनच्या राष्ट्रीय ध्वजाशी साम्य आहे. त्यामुळे पांढऱ्या रंगावरील लाल क्रॉस सेंट जॉर्ज क्रॉस म्हणून ओळखला जाते. सेंट जॉर्ज क्रॉसचे नाव एका ख्रिश्चन संताच्या नावावर ठेवण्यात आले असून तो तिसऱ्या धर्मयुद्धाचा योद्धा असल्याचेही सांगितले जात आहे. इंग्लंडच्या राष्ट्रीय ध्वजावरही त्याच सेंट जॉर्ज क्रॉसचे चिन्ह असल्याचेही त्यांनी यावेळी सांगितले. आता सर्व युद्धनौका, ग्रांड स्टेशन आणि नौदल एअरबेसवर नौदलाचा ध्वज दिमाखात फडकताना दिसणार आहे.

छत्रपती शिवरायांचा आदर्श

नौदलाच्या नवीन ध्वजामध्ये वरच्या कोपऱ्यावर भारताचा तिरंगा आहे. तर दुसऱ्या अर्द्या भागामध्ये नौदलाची शिखा आहे. हे निळे चिन्ह अष्टकोनाच्या आकारात असून जे भारतीय नौदलाच्या चारही दिशा आणि चार कोन म्हणजे आठ दिशा दाखवते. या अष्टकोनी बोधचिन्हाच्या खाली देवनागरीत 'शाम नो वरुण:' असे नाव कोरलेले आहे.

१५ ऑगस्ट १९४७ रोजी भारताला ब्रिटिश साम्राज्यातून स्वातंत्र्य मिळाले. आपल्या भारत देशाला स्वातंत्र्य मिळून 75 वर्षे पूर्ण झाली. आणि त्यामुळेच आज आपण स्वातंत्र्याचा अमृत महोत्सव अतिशय आनंदाने, उत्साहाने आणि देशभक्तीने प्रेरित होऊन साजरा करित आहोत. ही सुरुवात महात्मा गांधींच्या साबरमती आश्रमापासून १२ मार्च २०२१ पासून ७५ आठवड्यांसाठी करण्यात आली. अर्थात दोन वर्षे भारत देश अमृत महोत्सव साजरा करत राहील. स्वातंत्र्याला ७५ वर्षे पूर्ण होत असताना देशातील ७५ ठिकाणी स्वातंत्र्य लढ्यातील ७५ महत्वाच्या घटनांची आठवण केली जाणार आहे. स्वातंत्र्याचा अमृत महोत्सव हे स्वावलंबनाच्या दिशेने एक महत्वाचे पाऊल आहे. स्वातंत्र्याच्या अमृत महोत्सवाच्या आयोजनामध्ये स्वातंत्र्य लढ्याची भावना व त्याग अनुभवता येणार आहे. देशातील सर्व हुतात्म्यांना श्रद्धांजली वाहिली जाईल, तसेच त्यांच्या स्वप्नातील भारत घडविण्याचा संकल्प केला जाईल. या अमृत महोत्सवानिमित्त भारत सरकारद्वारा देशाच्या व तिरंग्यांच्या सन्मानासाठी 'हर घर तिरंगा' अभियान राबविले जाणार आहे.



Stress Analysis of RCC Intz Type Elevated Storage Reservoir with Discrete Modelling by Using ANSYS
Mr. Avinash M. Thorat

Abstract— the present study focuses on the nlinear analysis of reinforced concrete Intz type elevated storage reservoir (ESR). In this study component wise static analysis with tank full condition is carried out. Means the components of the RCC Intz type ESR like top dome, top ring beam, cylindrical tank wall, bottom ring beam, conical dome slab bottom spherical dome, bottom circular girder, supporting frame with columns and braces and footings are modelled and static analysis by considering all the design loads is carried out in order to find maximum stresses produced in the tank components. Concrete is modelled using SOLID65 element and reinforcement is modelled using LINK180 element. Also discrete type of modelling technique is used in order to model rebar in the concrete. For modelling and analysis Ansys Mechanical apdl software is used.
Keywords: Elevated Storage Reservoir, Reinforced Concrete, Discrete Type Reinforcement Modelling, SOLID65, LINK180, Static Analysis, ANSYS Mechanical APDL



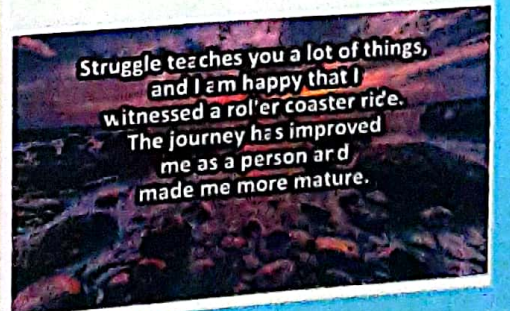
While traveling through Pandharpur city we observe the waste is spaded everywhere and It's created lot of dirt, Oder and bad appearance Pandharpur city. Then we are arranged a visit to Pandharpur city to take overview of current situation of waste, its management like collection process, transportation process, disposal or treatment process. In short, we only taken overview and we observe that lot of things we can change only by having proper data related to waste of Pandharpur city. The existing data that we searched, and we get is old and insufficient to create a proper waste management plan for Punharpur city. And to solve the problem of waste we need the character sticks of waste, its actual quantity per kg per person per day & types of waste Pandharpur city content (like, domestic waste, Industrial waste, agriculture waste, E-waste, medical waste, demolition waste etc.). After testing the waste samples, we collected data related to it and then we analyzed it. And after all research, tests and analysis we come toward the result. Result in sense of selecting suitable method or treatment for management of integrated solid waste of Pandharpur city. After selecting the suitable treatment, we designed it. Design in sense of Plan, Drawing, Estimation, detail specification, capacity, life span of that treatment process, 3D views, etc.



Poster Presentation



Presented By:- Shubhangi Talekar



GOVERNMENT SECTOR



Mr. More Mahesh Balasaheb

Sub Divisional Officer
(Bhopal)

Location: Chale Tal. Pandharpur



Mr. Patil Shrikrishna Arvindrao

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