



**Criterion 3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge**

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**Gokhale Education Society's  
R.H.SAPAT COLLEGE OF  
ENGINEERING, MANAGEMENT  
STUDIES AND RESEARCH**  
Prin. T.A. Kulkarni Vidyanagar, Nashik- 422 005.



## **DEPARTMENT OF MECHANICAL, ELECTTRICAL & E&TC ENGINEERING**

### **E Bike Report**

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Department of Mechanical Engineering

**The multidisciplinary project by Mechanical, Electrical, E& TC Engineering Department**



**Event Name:** SIEP-Hero E-bike Challenge Phase 3  
**Event Category:** Skill Innovation & Employability Program  
**Venue:** Galgotias University - Greater Noida Uttar Pradesh  
**Event Date:** 14<sup>th</sup> to 18<sup>th</sup> April 2023  
**Team Name:** Team ORKA  
**Student Name:** Mr. Chinmay Bhange(Captain)

**Event Name:**

Skill Employability 3<sup>rd</sup> Season of E-Bike Challenge Powdered by Hero Electric organized by Imperial Society of Innovative Engineers – ISIE INDIA, Principal Industrial partner by Society of Manufactures of Electric Vehicles –SMEV.

**Event Description:**

ISIEINDIA & Hero Electric organized the Third season of Skill, Innovation & Employability Program where students from all over India participated in E-Bike challenge.

This event is entirely different from other Event's where manufacturing of the vehicle & Retrofitting both are included. This event is entirely based on the Innovation on Drive train and other aspects (Specially defined by the Hero Electric).

The event was divided in two classes

1. **Retrofitting Class** – The Purpose of this segment of retrofitted bike to provide immense riding pleasure to the users without changing the bike essence. A light Weight Vehicle of this class will provide an ultimate eco-friendly and economical cruising experience to end users.
2. **Self-Manufactured Class** – The Purpose of this segment is to manufacture an Electric Motorbike which in future meets the commercial requirements that can help the society to incline towards the E-Mobility.

**Schedule of the Event Flow:**

(All the stages were evaluated by Experts of ISIEINDIA & HERO ELECTRIC)

- Registration
- Online Pre-Virtual
- Electrical Systems Form Report Submission
- Group-A Report Submission
- Motor Performance Report
  - Motor Performance Report
  - Vehicle Health Monitoring Report
  - Battery Performance Report
- Group-B Report Submission
  - Speed Limiter Report
  - Self-Balancing Report
  - Parking Assistance Report
- Final Event
  - Static Round:
  - Innovation Presentation
  - Cost Report Presentation
  - Business Plan Presentation

**Dynamic Round:**

Technical Inspection & Brake (Qualifying Round)

- Acceleration Test
- Sled Pull Test
- Hill Climb Test

- Off Road Test
- Self-Balanced Run
- Vehicle Run Based on Modes
- Durability Test
- Prize Distribution

### E-Bike Specification:

- Li ion battery 60V, 40Ah
- Motor 2000W
- Range 70km -80 KM per charge which varies based on speed.
- 3 mode run- top speed is 60km/h
- Retrofit bike

### Winning Award Categories:

- 1st Prize of Rupees 50,000/- (Champion- ISIE E -Bike challenge Event-2023)
- Best Off-Road Award (Rs 10,000)
- Future Award (Rs 5,000/-)
- Runner-up Durability (Rs 5,000/-)
- People's Choice Award (Rs 5,000/-)

**Total Cash Prize: INR 75,000.00**

We are happy to share the coverage that appeared in Gaonkari & Sakal news paper (Nashik)

## आरएच सपटचे विद्यार्थी ठरले हिरो राष्ट्रीय स्तरावरील स्पर्धेत प्रथम पारितोषिक

►► नाशिक । दि. ६ प्रतिनिधी

गोखले एज्युकेशन सोसायटी संचालित आरएच सपट अभियांत्रिकी महाविद्यालयातील विद्यार्थ्यांनी राष्ट्रीय स्तरावर आयोजित करण्यात आलेल्या एसआयईपी हिरो इ- बाईक चॅलेंज २०२३ या राष्ट्रीय स्तरावरील स्पर्धेत प्रथम पारितोषिक पटकावले आहे. सदर स्पर्धा नुकतीच गलगोटी विद्यापीठ, ग्रेटर नोड्डा उत्तर प्रदेश येथे आयोजित करण्यात आली होती. 'रेट्रोफिटिंग' या थीम वर आधारित या स्पर्धेत विद्यार्थ्यांनी जुन्या पेट्रोल दुचाकी गाडीमध्ये विविध बदल करून त्याचे इलेक्ट्रिक गाडीमध्ये रूपांतरण केले. 'द-६०' इ-बाईक या नावाने सादर करण्यात आलेल्या या गाडीने स्पर्धेत सर्वांचे लक्ष वेधून घेत विद्यार्थ्यांच्या या



कामगिरीचे कौतुक केले.

याकामी महाविद्यालयाच्या यांत्रिकी, विद्युत, इलेक्ट्रॉनिक्स, दूरसंचार आणि संगणक विभागातील सुमारे २० विद्यार्थ्यांनी मेहनत घेतली. तसेच त्यांना यांत्रिकी विभागाचे प्राध्यापक स्वप्निल सोनवणे आणि रवी टर्ले यांचे मार्गदर्शन लाभले. स्पर्धेसाठी विविध राज्यातून ४१ संघांनी सहभाग नोंदविला. या स्पर्धेसाठी १०० हून अधिक नियमांचे

काटेकोरपणे पालन करून अवघ्या तीन महिन्यांत ही दुचाकी विद्यार्थ्यांनी साकारली.

स्पर्धेत वेगवेगळ्या फेरीच्या माध्यमातून सादर करण्यात आलेल्या सर्वच दुचाकींची औद्योगिक क्षेत्रातील प्रख्यात तज्ञांनी वेगवेगळ्या पद्धतीने तपासणी आणि अनेक चाचण्या करून मूल्यमापन केले. या सगळ्याच स्तरावरील विविध चाचण्यांमध्ये उत्कृष्ट

कामगिरी दाखवत द-६० या इ-बाईकने राष्ट्रीय स्तरावरील चॅम्पियनशिप हा पुरस्कार मिळवला. तसेच सर्वोत्तम ऑफरोड चाचणीमध्ये सुद्धा प्रथम क्रमांक पटकावला. आरएच सपट अभियांत्रिकी महाविद्यालयातील विद्यार्थ्यांनी केलेल्या या लक्षणीय कामगिरी बद्दल राष्ट्रीय स्तरावर ७५,०००/- रुपयांचे प्रथम क्रमांकाचे पारितोषिक त्यांना प्रदान करण्यात आले. विद्यार्थ्यांच्या या कामगिरीबद्दल संस्थेचे सचिव सर डॉ. मो. स. गोसावी, मानव संसाधन व्यवस्थापन संचालक डॉ. दीप्ती देशपांडे, आस्थापना संचालक शैलेश गोसावी, प्रकल्प संचालक पी. एम. देशपांडे, प्राचार्य पी. सी. कुलकर्णी यांनी विद्यार्थ्यांचे आणि महाविद्यालयाच्या प्राध्यापकांचे अभिनंदन केले.



# सपट अभियांत्रिकीच्या विद्यार्थ्यांची बाइक ठरली अव्वल

► सकाळ वृत्तसेवा

नाशिक, ता. २ : राष्ट्रीय स्तरावर आयोजित 'एसआयईपी हॅरो ई-बाईक चॅलेंज २०२३' स्पर्धेत गोखले एन्ज्युकेशन सोसायटी संचालित आर. एच. सपट अभियांत्रिकी महाविद्यालयातील विद्यार्थ्यांनी यशस्वी कामगिरी केली. या स्पर्धेत विद्यार्थ्यांनी साकारलेल्या बाईकने प्रथम क्रमांक पटकावला.

राष्ट्रीय स्तरावरील ही स्पर्धा मुंबईतच गलगीटीआज विद्यापीठ (ग्रेटर नोंडिया, उत्तर प्रदेश) येथे पार पडली. 'ट्रोटोफिस्टिंग' या संकल्पनेवर आधारित या स्पर्धेत विद्यार्थ्यांनी जुन्या पेट्रोल दुचाकी गाडीत विविध बदल करून त्याचे इलेक्ट्रिक गाडीत रूपांतरण करत सादरीकरण केले. 'एक्स-६० ई-बाईक' या गावाने सादर केलेल्या गाडीने स्पर्धेत सर्वांचे लक्ष वेधून घेत विद्यार्थ्यांच्या या कामगिरीचे कौतुक केले. ओरका या संघामार्फत बनविण्यात आलेली ही ई-बाईक स्पर्धेत लक्षवेधी ठरली. महाविद्यालयाच्या यांत्रिकी, विद्युत, इलेक्ट्रॉनिक्स, हार्डवेअर आणि संगणक विभागातील २० विद्यार्थ्यांनी मेहनत घेतली. त्यांना यांत्रिकी विभागाचे

राष्ट्रीय स्तरावरील 'एसआयईपी हॅरो ई-बाईक चॅलेंज' मध्ये पारितोषिक



नाशिक : राष्ट्रीय स्पर्धेतील पुरस्कार विजेत्या जुन्या पेट्रोल दुचाकीतून रूपांतरित ई-बाईकची पाहणी करताना स्वर्गील सोनवणे, प्रा. डॉ. एस. पी. अग्निहोत्री, डॉ. मो स गौसावी, शैलेश गौसावी, डॉ वाघमारे, आणि रवी टळे.

प्रा. स्वर्गील सोनवणे, रवी टळे यांचे मार्गदर्शन लाभले.

स्पर्धेसाठी विविध राण्यातून ४१ संघांनी सहभाग नोंदविला. स्पर्धेसाठी शोभारहून अधिक निर्यातचे काटेकोरपणे पालन करून अवघ्या तीन महिन्यात ही दुचाकी विद्यार्थ्यांनी साकारली. स्पर्धेत वेगवेगळ्या फेरीच्या माध्यमातून सादर केलेल्या सर्वच दुचाकींची औद्योगिक क्षेत्रातील प्रख्यात तज्ज्ञांनी तपासणी,

अनेक चाचण्यांतून मूल्यमापन केले. विविध चाचण्यांमध्ये उल्कूट कामगिरी दाखवत एक्स-६० या ई-बाईकने राष्ट्रीय स्तरावरील चॅम्पियनशिपचा पुरस्कार मिळवला. सर्वोत्तम ऑफरोड चाचण्यांमध्येदेखील प्रथम क्रमांक पटकावला. सपट अभियांत्रिकी महाविद्यालयातील विद्यार्थ्यांच्या कामगिरीबद्दल राष्ट्रीय स्तरावर ७५ हजार रुपयांचे प्रथम क्रमांकाचे

पारितोषिक त्यांना प्रदान केले. तसेच प्रथम लोकनिवड पुरस्कार आणि गाडीच्या डिजिटलिसाठी दुसरा क्रमांकादेखील ई-बाईकला प्राप्त झाला. महाविद्यालयाच्या ओरका संघाने यापूर्वीदेखील ऑक्टोबर २०२२ मध्ये एसआरएन विद्यापीठ (चेन्नई) येथे एसएड-इंडिया यांनी आयोजित केलेल्या नवनवोने ई-बाईक तयार करण्याच्या राष्ट्रीय स्पर्धेत प्रथम क्रमांक प्राप्त केला

असे आहित एक्स-६० ई-बाईकची वैशिष्ट्ये

डिजिटल स्पीडोमीटर, जलरोधक आयपी ६० बॅटरी पॅक, फ्लेमद्वारे नियंत्रित करता येणारा स्मार्ट बॅटरी पॅक, विशेष म्हणजे गाडीचे सर्व भाग हे महाविद्यालयातील वर्कशॉपमध्ये बनविण्यात आले.

आहे. विद्यार्थ्यांच्या कामगिरीबद्दल संस्थेचे सचिव डॉ. मो. स. गौसावी, मानव संसाधन व्यवस्थापन संचालक डॉ. दीप्ती देशपांडे, आस्थापना संचालक शैलेश गौसावी, प्रकल्प संचालक पी.एस. देशपांडे, प्राचार्य पी. सी. कुलकर्णी यांनी विद्यार्थ्यांचे अभिनंदन केले. प्रकल्पात विन्मय भगणे (कर्गधर), यश देशमुख, अश्वतथ देसले, शुभम जोशी, सिद्धार्थ कटारकर, प्रीती सोनवणे, तेजल मांडकर, जाई जोशी, प्रथमेश इंगळे, जान्हवी चंद्रात्रे, अर्चा सय्यद, साक्षी सोंगळे, तिलेश भावसार, रिशवान निंजारी, वैदात अमृतले, सार्थक जोशी, तेजस दराडे, अभिषेक यादव, मयूर घमंडी आदींचा समावेश होता.

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Off Road



Acceleration Test



**GOKHALE EDUCATION SOCIETY'S  
R.H.SAPAT COLLEGE OF ENGINEERING, MANAGEMENT  
STUDIES AND RESEARCH**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**SAEINDIA - ETWDC Report**

**Rajalakshmi Engineering Collage, Chennai Tamil Nadu**

**22<sup>th</sup> & 23<sup>th</sup> July 2023**

In July 2023, the fourth edition of ETWDC SAEINDIA 2023 was held at Rajalakshmi Engineering Collage, Chennai on 22<sup>th</sup> and 23<sup>th</sup> July 2023 where 40 teams from all over the nation had participated. In total there were four design reviews or design reports, first three design reports were to be submitted in document form and fourth design review was the final event at Rajalakshmi Engineering Collage, Chennai where all the tests were conducted such as static and dynamic tests.

**Main event:- SAE INDIA - ETWDC-2023**





## VAYU 35

VAYU 35 IS AN ELECTRIC VEHICLE USE ONE ELECTRIC BLDC MID DRIVE MOTOR .IT CANBE POWERED AUTONOMOUSLY BY BATTERY.CHAIN DRIVE IS USE FOR POWER TRANSMISSION.



**DATE: 20<sup>th</sup> & 21<sup>th</sup> July  
2023 (Day: -1 & 2)**

On the 20<sup>th</sup> evening we reached our hotel (havens gate) at 5:30 am. Immediately after all formal processes we got rooms. As we were travelling for more than 24 hours, we were tired so everyone went to their respective rooms and slept until morning. The rooms were really spacious. Next morning we had our breakfast and started working on our vehicle.

By the way, we had transported the vehicle via road through a pickup truck which reached our hotel at 11:00 am on next day 21<sup>th</sup> July. We disassembled the vehicle and started working on it. It was a hectic day but the team really worked hard, eventually solving the



issue at 4:00 am next morning .This shows that Team ORKA is dedicated, motivated and will go to its extreme level without thinking of food, water or health. Not only our team but also our faculty advisors were up with us motivating and guiding us.

### **Date :-22<sup>th</sup> July 2022 (Day: 3)**

It was early in the morning for the Team ORKA without sleep, excited, confident and full of enthusiasm. Team was well on time for the event as we stayed close to REC University. The registration was done and the team was allotted a pit. After registration team captain (Atharva Kiran Dharankar) and faculty advisers (Prof. S. H. Sonawane ) were called for inauguration at automobile seminar hall. At the inauguration, the president of ETWDC was the chief guest and gave a motivational speech.



The event was divided into two parts - Static and Dynamic events. The Static event consists of Presentation and Technical Inspection. And the Dynamic event was about all the tests. Static event was first and Presentation round was started.

We were first to present. For the presentation we were three team members and our



presentation was divided into three parts (Introduction, Vehicle specification and Business plan). It was a phenomenal presentation as we answered all the questions as judges were expecting.

Only 3 members were expected to give the presentation. During the time some of the ETWDC guests visited and asked technical questions about the vehicle, especially the battery.



### **Technical Inspection:**

After the presentation we were called upon for "TI" or Technical Inspection where the vehicle was inspected in three parts.

First inspection, the vehicle's wire harness and connections were inspected. Second inspection focused on mechanical parameters like dimensions of the vehicle where wheelbase, height, width, etc were checked. Third inspection focused on aesthetics and its fit and finish of body panels until all the static events were conducted.

### **Dynamic Event:**

For the Dynamic event we had Brake test, Acceleration test, Gradeability test, Bump test, Maneuverability test and Range test.

For the Brake test the condition was that both Rear and Front wheel should lock at same time.

**Date :- 21<sup>th</sup> July 2023**

**1. Break test:**

The break test was done successfully and our confidence gets boosted. We are all ready for next test

**2. Acceleration test:**

Second test was an acceleration test. In the first trial the speed and time was 29 kmph for 5.83 seconds. Second trial reading was 32 kmph for 3.18 seconds.

After this acceleration test was done.

**3. Gradeability test:**

There was an angle of 7 degrees. We were supposed to take our vehicle on that hill.

Two trials were allowed. In the first trial the time required was 5.11 seconds. Thus the gradeability test was completed.

**4. Bump Test:**

In this test the riding comfort and the front and rear suspensions will be evaluated. It consists of two parallel tracks. The track consists of 24 bumps placed in between distances of 1m in the first track and 1.4m in the second track. The rider has to ride through both the tracks on the bumps. Bump test was completed in 30.21 minutes by our vehicle.

**5. Manoeuvrability test:**

A track was designed in the shape of the number eight (8). So the rider was supposed to ride the vehicle on the track. The aim of this test was to design the vehicle with stable weight balance. Manoeuvrability test was done without any complications.

**6. Range test:**

A track of 200m was allotted for the range test and we were supposed to complete 10 rounds of the track. Voltage sensor was attached to our vehicle and time was tracked. Our vehicle completed the test in 5.35 minutes.

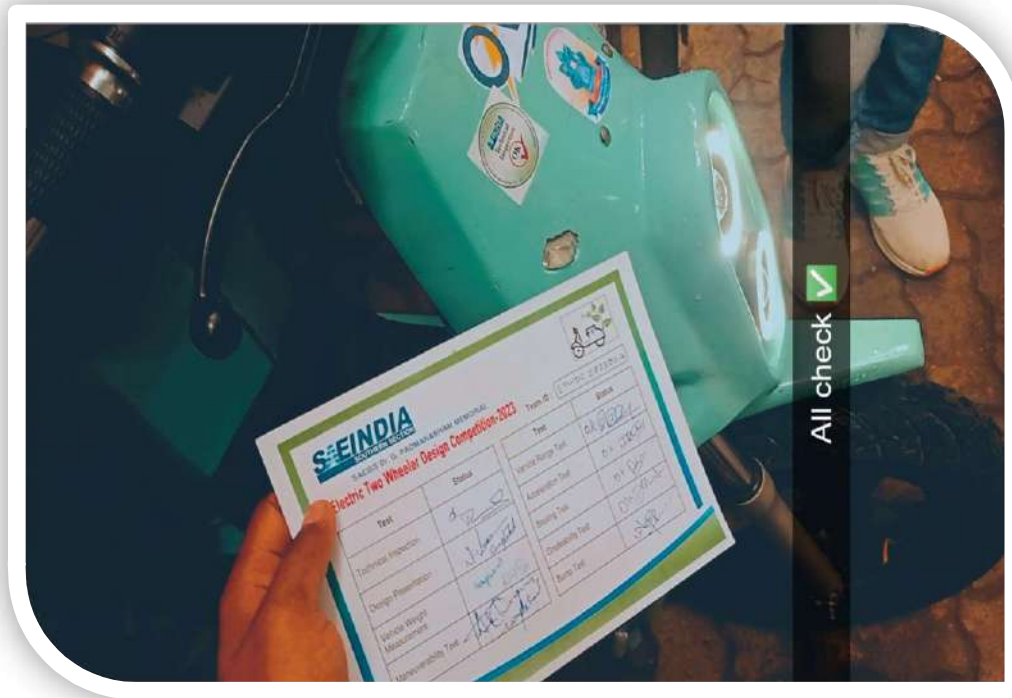
**7. Innovation Round:**

All the innovations that are present in our vehicle were inspected one by one and marks were given accordingly.

The innovation that were present in our vehicle was explained one by one

- Chassis.
- Swappable battery
- Cornering lights
- Fuse box
- Key less.
- Geo fence
- Auto hold
- Accident detection

- Smart BMS system
- Display.
- Helmet Detection.
- Bank angle Detection.
- Side Stand Detection.



The invigilator was pretty impressed over all the innovations.

**Visit of chief guest:** All the team members were waiting for the announcement of the prize distribution. All of a sudden, Managers of “MAHINDRA” & “ROYL ENFIELD” came and asked technical questions about the vehicle.

**Prize distribution:**

The price distribution was in the campus itself.

The guests present there gave information about how we can improve further and motivated us with their wise words.

The most awaited movement was of the prize distribution. An announcement was made that they are also having prizes according to the categories. The categories were - Design, Maneuverability, endurance, innovation and presentation.

**Winning Award Categories:**

- 1) Overall Performance AIR 2<sup>nd</sup> (50,000/-)
- 2) Innovation (10,000/-)

Category	Rank		
Special Reward	1		
Overall Performance	2		
Design	2		
Presentation	5		
Manoeuvrability	4		
Endurance	4		

Team Name	College Name	Rank	TEAM ID
Team Nikola Racing	K.K Wagh institute of Engg Education & Research, Nashik.	1	ETWDC2023026
Team ORKA	Gokhale education society's R.H. Sapat college of engineering studies and management research.	2	ETWDC2023004
Electrovolt	Shri krishna college of engg.	3	ETWDC2023032
Voltrage Electric	Bannari amman institute & tech.	4	ETWDC2023038
Vajra	Dr. Ambedkar institute	5	ETWDC2023037

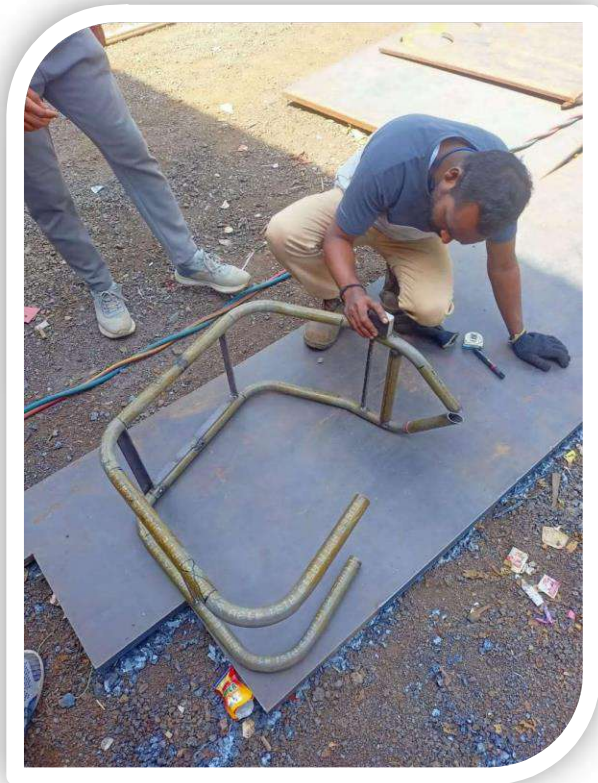






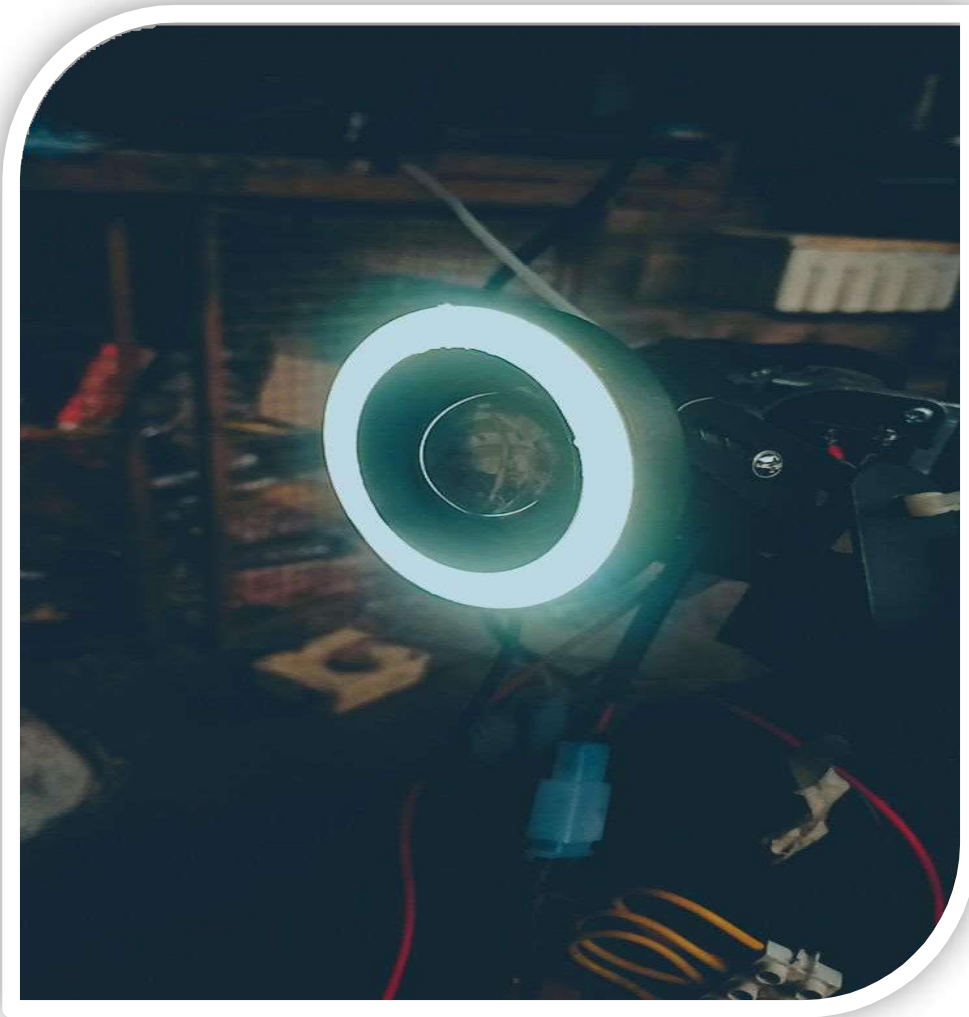
# JOURNEY



















Gokhale Education Society's  
**R. H. Sapat College of Engineering, Management Studies, & Research**

- ISO 9001:2015 Certified - NAAC Accredited with Grade B++



Email- [principal@ges-coengg.org](mailto:principal@ges-coengg.org)

- Affiliated to Savitribai Phule Pune University  
- Recognized by DTE & Govt. of Maharashtra  
- Approved by AICTE, New Delhi

Ph. 0253- 2570106

Department of Mechanical Engineering

## SAEINDIA - ETWDC Report

SRM University, Kattankulathur, Chennai, Tamil Nadu

17th & 18th October 2022



In October 2022, the third edition of ETWDC SAEINDIA 2022 was held at SRM institute of Technology, Kattankulathur, Chennai, Tamil Nadu on 17<sup>th</sup> and 18<sup>th</sup> October 2022 where 58 teams from all over the nation had participated out of that only 27 were selected and rest were filtered out through various process called design reviews. In total there were four design reviews or design reports, first three design reports were to be submitted in document form and fourth design review was the final event at SRM University where all the tests were conducted such as static and dynamic tests.

**Main event:-** SAE INDIA - ETWDC-2022

@SRM Institute of technology, Kattankulathur, Chennai, Tamil Nadu



**Date :- 16th october 2022 (Day: -1)**

On the 16th morning we reached our hotel(Sera grand) at 1:30 am. Immediately after all formal processes we got rooms, our rooms were 301, 302, 305 and 306. As we were travelling for more than 24 hours, we were tired so everyone went to their respective rooms and slept until morning. The rooms were really spacious. Next morning we had our breakfast and started working on our vehicle. By the way, we had transported the vehicle via road though a pickup truck which reached our hotel at 7:00 am. So while working on the vehicle we observed that our electronics systems were not working. So we disassembled the vehicle and started working on it. It was a hectic day but the team really worked hard, eventually solving the issue at 4:00 am next morning. This shows that Team ORKA is dedicated, motivated and will go to its extreme level without thinking of food, water or health. Not only our team but also our faculty advisors were up with us motivating and guiding us.





**Date :- 17th october 2022 (Day: 0)**

It was early in the morning for the Team ORKA with only 1 hour sleep, excited, confident and full of enthusiasm. Team was well on time for the event as we stayed close to SRM University. The registration was done and the team was allotted a pit. Our pit was in an aerospace hangar, where we could see many jet engines, flight simulators and a model of PSLV rocket. This helped boost our team confidence at its extreme peak. After registration team captain and faculty advisers were called for inauguration at automobile seminar hall. At the inauguration, the president of ETWDC was the chief guest and gave a motivational speech.

The event was divided into two parts - Static and Dynamic events. The Static event consists of Presentation and Technical Inspection. And the Dynamic event was about all the tests. Static event was first and Presentation round was started.

We were first to present. For the presentation we were three team members and our presentation was divided into three parts (Introduction, Vehicle specification and Business plan). It was a phenomenal presentation as we answered all the questions as judges were expecting.

Only 3 members were expected to give the presentation and the rest of the members were supposed to be in the aerospace hangar where the vehicle was kept. During the time some of the ETWDC guests visited and asked technical questions about the vehicle, especially the battery.



## Technical Inspection:

After the presentation we were called upon for “TI” or Technical Inspection where the vehicle was inspected in three parts.

First inspection, the vehicle's wire harness and connections were inspected. Second inspection focused on mechanical parameters like dimensions of the vehicle where wheelbase, height, width, etc were checked. Third inspection focused on aesthetics and its fit and finish of body panels until all the static events were conducted.



## Dynamic Event:

For the Dynamic event we had Brake test, Acceleration test, Gradeability test, Bump test, Maneuverability test and Range test.

For the Brake test the condition was that both Rear and Front wheel should lock at same time. But our front wheel didn't lock, we tried to fix the problem until the first day got over but that did not help. So we went to our hotel and started fixing the issue until the next morning at 3:00 am. Team did not have lunch or dinner and gave priority to solving the problem. We were constantly in touch with our college alumni Vinayak Bhise, he was also with us on call until the issue was solved. Eventually we did solve the problem by "Jugad", which was by knurling both brake shoes as well as the drum.

### Date :- 18th october 2022 (Day: 1)

#### 1. Break test:

Morning 7 am we got Brake guidance from ETWDC people. The guidance that we got from the volunteers did not work. So the last option was to fully tighten our front brake. This option worked and after two iterations our vehicle qualified the break test.





## 2. Acceleration test:

Second test was an acceleration test. In the first trial the speed and time was 26 kmph for 5.83 seconds. Second trial reading was 26 kmph for 6.18 seconds. After this acceleration test was done.





### 3. Gradeability test:

There was an angle of 7 degrees. We were supposed to take our vehicle on that hill. Two trials were allowed. In the first trial the time required was 5.84 seconds. The second trial readings were 5.98 seconds. Thus the gradeability test was completed.



### 4. Bump Test:

In this test the riding comfort and the front and rear suspensions will be evaluated. It consists of two parallel tracks. The track consists of 24 bumps placed in between distances of 1m in the first track and 1.4m in the second track. The rider has to ride through both the tracks on the bumps.

Bump test was completed in 36 seconds by our vehicle.



### 5. Manoeuvrability test:

A track was designed in the shape of the number eight. So the rider was supposed to ride the vehicle on the track. The aim of this test was to design the vehicle with stable weight balance.

Manoeuvrability test was done without any complications.



### 6. Range test:

A track of 200m was allotted for the range test and we were supposed to complete 10 rounds of the track. Voltage sensor was attached to our vehicle and time was tracked. Our vehicle completed the test in 6.22 minutes.



### **Innovation Round:**

All the innovations that are present in our vehicle were inspected one by one and marks were given accordingly.

The innovation that were present in our vehicle was explained one by one

- Chassis.
- Display.
- Helmet Detection.
- Bank angle Detection.
- Side Stand Detection.
- Obstacle Detection.

The invigilator was pretty impressed over all the innovations.

**Visit of chief guest:** All the team members were waiting for the announcement of the prize distribution. All of a sudden, Manager of TCS came and asked technical questions about the vehicle.



### **E-Bike Specification:**

- Li ion battery 48V, Ah
- Motor 800W
- Range 60km -per charge which varies based on speed.
- 3 mode run- top speed is 30 km/h

**Prize distribution:**

The prize distribution was at the Faraday hall in the campus itself. To refresh all the team members one faculty member gave the information about a musical instrument called.. And played it for us. The guests present there gave information about how we can improve further and motivated us with their wise words.

The most awaited movement was of the prize distribution. An announcement was made that they are also having prizes according to the categories. The categories were - Design, Maneuverability, endurance, innovation and presentation.

**Winning Award Categories:**

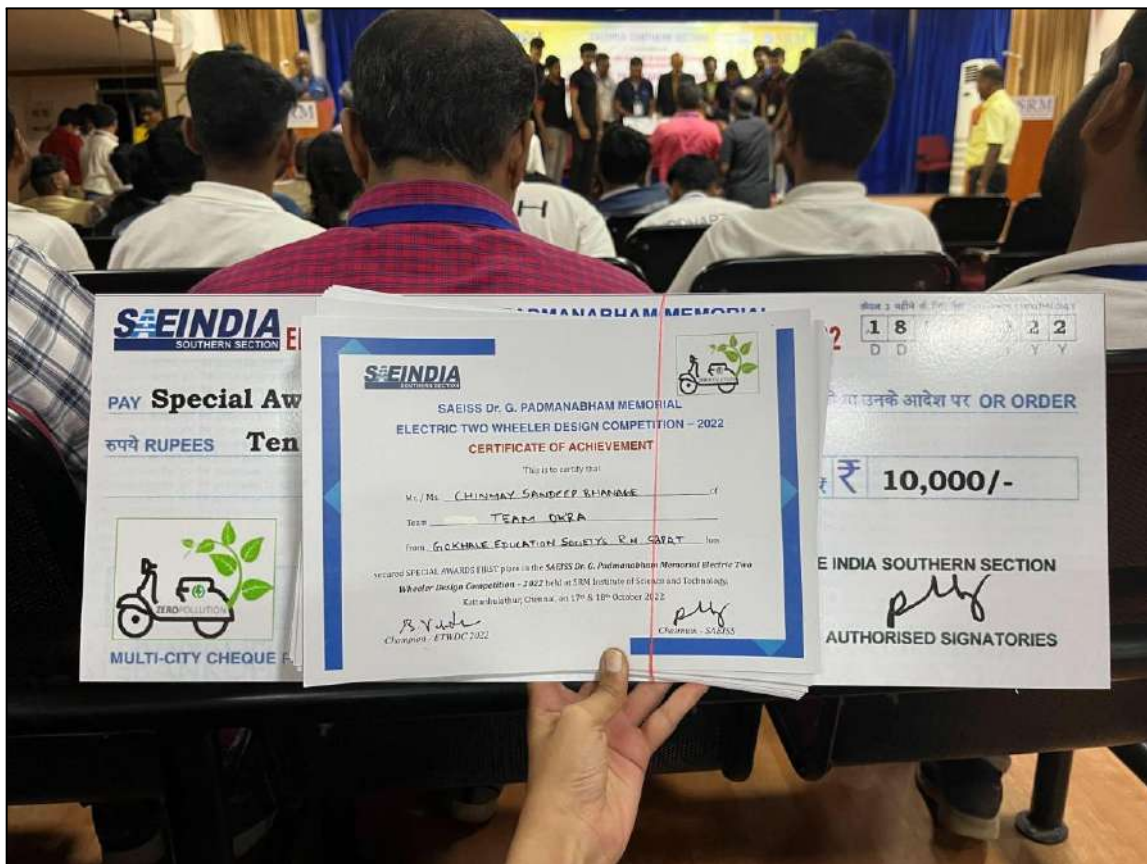
- Overall Performance:-75000/-
- Innovation:-10000/-

Category	Rank
Overall Performance	1
Innovation	1
Presentation	4
Design	5
Manoeuvrability	9
Endurance	10

**Overall:**

Our team Scored Rank 1 all over India .

Team Name	College Name	Overall Score (1000)	Rank
Team ORKA	Gokhale education society's R.H. Sapat college of engineering studies and management research.	782.84	1
Team Nikola Racing	K.K Wagh institute of Engg Education & Research, Nashik.	781.71	2
GECTRON	Govt Engg College of Thrissur	752.02	3
Team Phalanx E-bike club	Govt college of Engg & Research, Pune	746.81	3
Leviathan Moto Racing	Kumaraguru College of Technology, Coimbatore	744.60	3







# EVENT REPORT

OCTOBER 14, 2023

# INNOVATION & IPR

IN THE FIELD OF SCIENCE AND ENGINEERING

Speaker : Dr. Omprakash Kulkarni

Organized by: Ecell Gescoe

Venue: Palash Hall( Gokhale Education Society)





Under Startup and Innovation Cell of the college, the college had arranged an expert talk on the topic "Innovation and IPR in the field of Science and Engineering" by a Distinguished Personality "Dr. Omprakash Kulkarni" On 14th October 2023 at Palash Hall.



Dr. S P Agnihotri provided a warm welcome and offered a brief overview of the event.

Dr. P C Kulkarni encouraged students with their words. Dr. Deepak Sonje provided a brief Introduction about the Chief Guest "Dr. Omprakash Kulkarni".



Dr. Omprakash Kulkarni started his expert talk on Intellectual Property rights in the field of Science. Students were Enthusiastically engaged with the speaker. The Guest provided an deep information about Intellectual Property, Copyright, trademarks, Patents, Procedure for filing Patent Application, Background of Indian Patent System and Law, etc. Sir also shared his personal experiences which were really inspiring.

Sir also shared that he has published 90+ research paper and also has the patents registered successfully

Vote of thanks was given by Ms.Sakshi Sangale (CA of E-Cell INOVCREATA).

CONTACT:



## DAY-1

Event Name :- E-VERSE 22  
Location :- M.S.Gosavi Hall, College Campus  
Number of person attending :- 60  
Sponsoring Organisation:- E-CELL GESCOE

Date :- 13/10/22

On Oct 13th, E-CELL GESCOE organised an event E-VERSE22 in collaboration with E-CELL IIT BOMBAY which was based on Startups and provides mentorship to the students.

The keynote speaker was Mr. Leenesh Singh who is a Co-founder & CEO at 10,000 startups. The dignitaries who were present at the event were Hon. Dr. R.P.Deshpande Sir [Branch Secretary GESCOE], Prof. P.M.Deshpande [Project Director GESCOE], Industry expert Mr. Nikhiel Kumar Bhakliwal [VP-Galactico Corporate Services Ltd.], Principal Dr.P.C.Kulkarni, Mr.Shaikesh Gosavi [Project Director E&M], Faculty Advisor Dr.S.P.Agnihotri [Head of E&TC],& the person who organise this event & also CA of IITB Mr.Atharva Nikam [Chairperson E-CELL GESCOE].

The students reported by 9:30 A.M at Seminar Hall. Guests arrived by 10:45 A.M. The host of the event was

The event started with the goddess Saraswati Poojan, where all the Hon. Dignitaries lighted the lamp. Then came the 'ISHASTAVAN' which was chanted by Ketan Inamdar. Here came the felicitation part where, Dr.P.C.Kulkarni Sir felicitated Prof.R.P.Deshpande, R.P.Deshpande Sir felicitated Mr.Leenesh Singh,R.P.Deshpande Sir felicitated Mr. Nikhielkumar Bhakliwal, P.C.Kulkarni Sir felicitated P.N.Deshpande Sir, Dr.Agnihotri Sir felicity felicity Dr. P.C.Kulkarni Sir, Dr.P.C.Kulkarni Sir felicitated Sir felicitated Dr.S.P.Agnihotri

Dr.S.P.Agnihotri Sir gave a valuable Speech on objectives of Startups & also welcomed all guests & aspirants. The Industry expert Nikhiel Kumar Bhakliwal talks on why we should/should not opt for Startup. Where he speaks on 5 factors as follows:

- 1)Why
- 2)Am I too young for this?
- 3)Why you should not
- 4)Motivation
- 5)Bring your Team.

He also used one phrase, "Entrepreneurship is a dance for 24 Hrs".

Then came the speaker of the event Mr.Leenesh Singh who Introduce to many new Startup related terms to aspirants

After such useful information on Entrepreneurship & Startup Mr. Leenesh Singh ended his speech with a quote, "There are a lot of options you need to find".

Host of the event gave a glimpse of the day & also had a Motivation by Hon. Principal of our college Dr.P.C.Kulkarni Sir.

Mr. Atharva Nikam held the dais & requested Despande Sir to felicitate all Faculty members of E-CELL. He also guided aspirants by sharing his success mantras,Elaborate INOVOCRETA & enthused students by the quotes ``How's the josh".Then we had a break of 45 min.

After such great inspirational stories & Motivation's. Here comes the real part of the event, for which the students were eager. The "ILLUMINATI EVENT" where the speaker clears all doubts of Startups & terms related to it. In this workshop aspirants get the deep knowledge about Startup & Innovation. They also shared their ideas After getting a brief introduction. The workshop was so enthusiastic That many students came forward & shared their Ideas. Mr. Leenesh was having live interaction with the aspirants & also clearing Individual's doubts. He also ensures students to invest in their Ideas & guide them throughout their Startups. The workshop ended by 5:30 P.M.

# DAY- 2

Date :- 14/10/2022

It's a day where the competency of the aspirants are examined. On this day, participants are able to identify their skills & implement those. With this vision we started our event by 10:55.

We started our event by Brainstorming session. Atharva called upon some interested aspirants to solve the cube. Pratik solved the entire cube in 1 min 30 sec & Tanmay solved it in 2 min.

Moving ahead towards the program, Kalyani headed with an inspiring quote, "Soaking up knowledge is not important, implementing is main.", which allows individuals to implement their knowledge which they got from Day-1 in competition. Further, Tejas gives a brief about competition & its rules.



Tejas briefing about day-2 event

Firstly, Biz-Quiz started at 11:21 A.M. where students were asked to write answers on a paper & questions were displayed on the projector. The quiz ended at 11:47 A.M. Then, we had a break of 35 min. At 1:25 aspirants

who got selected for the next round were announced. In which, 40 aspirants got selected. Those who were not selected became Investors for the next round where they are going to invest in the project of selected candidate's case study & pitching competition. Moving forward, Mr. Atharva Nikam felicitated Dr. Shraddha Deshpande & Dr. Neeta Deshpande madam, judges for the case study round.

Here, we had 10 team of 4 members each which were named A to J.

Kalyani & Parth explained Rules, which were as follows :

- 1) Analyse the solution in depth.
- 2) Draw conclusion for the case study
- 3) Recognize the service of the product.
- 4) Mention stakeholder and the organisation.
- 5) Back with their recommendation.
- 6) Quality of recommendation (logical sequence of each and every solution)
- 7) Conclusion should be logical.
- 8) Concise and precise meaning of it.
- 9) Paragraph format.

Aspirant teams presented the case study and it's results were based on the to following criteria:

- 1) Quality of Analysis.
- 2) Quality of recommendations.
- 3) Quality of QnA.
- 4) Overall performance.



## Aspirants making their team

There were roles assigned to each member of the team in which one will be CEO (Chief Executive Officer) - who not just look each and every session of the case study but also provide diligent and intelligent solution of the case study, CTO (Chief Technical Officer) - Technical part of the case study, CMO (Chief Marketing officer) - Domain of the Marketing Part, CFO (Chief Financial Officer) - Who looks over the finance of the case study.

Aspirant teams were made to solve a given case study in 30 min based on software used in Aviation Industry. While presenting participants also have to answer the queries by the investors & judges, which made the entire round more interesting & competitive. 5 min were given to each team to give solutions to the case study & 2 min to answer Q&A of Judges & Investors. This round ended by 4:30 and winners from this round were also announced so as to enter them in the upcoming pitching round & final round of the day. There were 5 teams who got selected for pitching round and they were, E, J, H, A & I.

Atharva explained rules for pitching round to selected candidates. The candidates who were not selected were investors for this round. Every selected team has given a Q.R. code & product name on which features of the product were given. 20 min were given for the discussion. The products which were given to each team were Shelfy, Herbify, Saviour, Specialised & Zoom.



Team zoom pitching their product



# DAY-3

Date :- 15/10/22

This is Day-3 of this massive event " ILLUMINATE EVENT " & still everyone is with the same energy and enthusiasm. We started our event by 11:45 A.M. The event was hosted by Kalyani Desai.

It was the day where all the hard work done by the aspirants were given appreciation with exciting prizes. Also, a fun day where all the aspirants had fun & also their managing skills are checked.

The event started by welcoming all judging panels who were going to judge the Day-3 Activities & also felicitation by Tejas More of Poonam Chaudhari Mam & Neha bhatambekar Mam.



Tejas briefing about day-3 event

Moving forward with fun activity Tejas gives brief about competition & explains rules & regulations. In which there are 8 tasks to be completed in a time span of 30 min in a team of 8 members which had exciting names such as 4'0'4, Dynamite, Comrade, Saviours, 8 wonders, Ignite , Unicorn.

Here, the fun competition started, where every aspirant is trying to complete their task in a given time & has uploaded photos and videos in google drive link given by E-CELL team. The 8 task done by the participants were:

- 1) Say a Group Song (Channa Mereya)
- 2) Group selfie in front of college gate.
- 3) Interview with random people whom you don't know.

Note:- Not from our college

Questions:-

1. If you could compare yourself with any animal, which would it be & why?
  2. Which Superhero would you want to be & why?
  3. Out of 10 How much would you rate me as an interviewer?
- 4) Print a right Pascals Triangle
  - 5) Abstract art using only shapes.
  - 6) Add for our college
  - 7) Play bullet chess with two E-CELL co-ordinators
  - 8) Untangled.

Afterwards, we had a break of 40 min.

We started our event again at 2:00 p.m. There was also a guest lecture arranged for the candidates so that they can get more insights of startup. The guest who was invited was Mr. Varad kumar patel (Co-founder at CUPRIT INFOTECH NASHIK E&TC) . Dr. S.P. Agnihotri sir & Dr P.C. Kulkarni sir were also there to add a glimpse to the event by their presence the hosting was done by P.N. Deshmukh Mam.

Firstly, we had a speech by Dr S.P. Agnihotri sir. Here, comes the felicitation part where, Principal sir felicitated Mr. Varad Kumar Sir with a token of love. Dr. S.P. Agnihotri Sir felicitated to Principal Dr P.C. Kulkarni Sir & also P.C. Kulkarni sir to felicitate Dr. S.P. Agnihotri sir and Atharva Nikam. Then, we had inspiration from our respected principal sir.

Mr.Varad Kumar grace the dias where he shares his startup journey which was started in 2013 and Now in 2022 it has turn over of about 5 crore. In the beginning they used to supply electronic equipment. They had a turn over of 2 crore by 2016. He tells aspirants to grab the opportunity whenever they will get it by using a quote,"To become a businessman, you must be opportunist". He got this opportunity from his friend Nishant Sawant. He was the pass out student of our college. He also ensures aspirants to provide guidance for their ideas & also to go through all government procedures & find investors for their startups. It's great to see our college student at this position.

Further Felicitation of E-CELL staff members done .

Principal Sir felicitated : Kokate Sir(Judge for Pitch-it),Poonam Chaudhari Mam(Judge for fun day activity), Neha Bhatambekar(Judge for fun day activity),Principal Sir felicitated all 7 head members of E-CELL(Mr.Atharva Nikam(),Mr.Tejas More(), Mr.Parth Parmar()),Mr.Bhushan Karpe(),Miss Kalyani Desa(i), Miss Apoorva Bedade(),Miss.Aishwarya Chandwadkar()).

Atharva Nikam Handle Further Function by calling upon some interested candidates to give feedback of EVERSE22 .The Feedback was given by Aditya Borade, Saishwari Sonawane, Tejas Borade, Apoorva Bedade,Mrs.Deshpande Mam,Tejas More,Kalyani Desai, Survesh, Jagruti, Mrs.Neha Bhatambekar Mam. From this Feedback it is clear that it was a successful event & also aspirants learn many new things from it.

Now, comes the most awaiting part of the event Prize Distribution : Firstly ,the winners were announced for Day-2 that is for Pitch-it competition & the winners were

Day 2 Winner : Team Zoom

1.Vishal Subhash Kashyap

2.Vaibhav Somnath Patil

3.Taha Inayat Shaikh

4.Keshavdas Gulabrao Panpatil

Principal Sir felicitated them with Prize



Principal Sir Felicitated Team Zoom

Day 2 Runner : Team Shelfy

- 1.Apoorva Bedade
- 2.Saishwari Sonawane
- 3.Sakshi Mahind
- 4.

Principal Sir felicitated them with Prize



Principal Sir Felicitated Team Shelfy

Then came the best Investor's

1. Bhagwan sonawane
2. Rucha Angal



Felicitated best Investor's

Day 3 Winner

Team 4'O'4

1. Apoorva Bedade
2. Neha wagh
3. Sarvesh Joshi
4. Saishwari Sonawane
5. Sakshi Mahind
6. Sarthak karpe
7. Adnan Ansari
8. Vedanshu Donde
9. Keshavdash panpatil



Felicitated Team 4'O'4

Runner Up

Team Dynamite:

- 1.Radhika Dherge
- 2.Aditi Gaikwad
- 3.Pratik Aher
- 4.Ayush Gaikwad
- 5.Naitik Fulfagar
- 6.Mehul Tamboli
- 7.Rohit Shukla
- 8.
- 9.



### Felicited Team Dynamite

Winners and runner up were felicitated with the Trophy , IIT BOMBAY certificate, 5k to Winner team, 2k to Runner up.

Felicitation of Team INOVOCRETA(Who organised this event & also participated in it) felicitated with IIT BOMBAY Certificate.

Principal Sir felicitated Dr.S.P.Agnihotri Sir & Mr.Atharva Nikam.

The Event ended by Vote of Thanks given by Mr.Atharva Nikam.

Date: 26<sup>th</sup> Nov 2022

To,  
The Principal,  
GESRHSCOEMSR,  
Nashik

Subject: Report on Activity Startup and Innovation Cell

Event: Startup Rapid Fire 2022

Date: 25/11/2022

Speaker: Mr. Brijesh Tejani


Founder Startups HQ Mumbai

Respected sir,

Under the Startup and Innovation Cell of our college we had invited Mr. Brijesh Tejani from Startups HQ Mumbai to enlighten our budding entrepreneurs, and budding engineers from various departments. A total of 118 Students attended the event at Sir. Dr. M. S. Gosavi Seminar Hall

In this program, Mr. Brijesh Tejani has given lots of ideas on how to start a new business and what financial mobility one should understand during the business. At the same time, he also threw light on the mental block and attitude changes of upcoming entrepreneurs. He has meaningfully inspired our students that what quality one should possess to become successful alumni. Eventually, the main motive of the event was to inculcate, motivate, ideate, and accelerate student ideas and also had a brief discussion on the same.

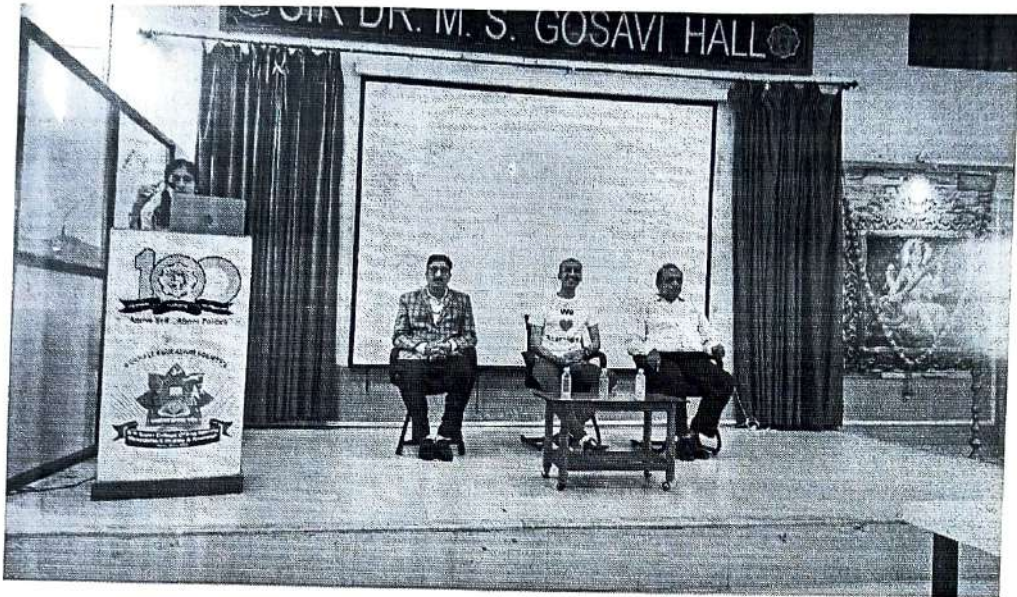
The program started with an introductory speech by Dr. P. C. Kulkarni Sir and the Felicitation program of the faculty advisor Dr. S. P. Agnihotri sir and the Guest Speaker. The event was conducted successfully. Students asked many questions which were answered up to their satisfaction. The program ended at 1:30 PM.

  
**Dr. S. P. Agnihotri**  
Faculty Advisor E-CELL GESCOE  
And Head of Startup & Innovation Cell

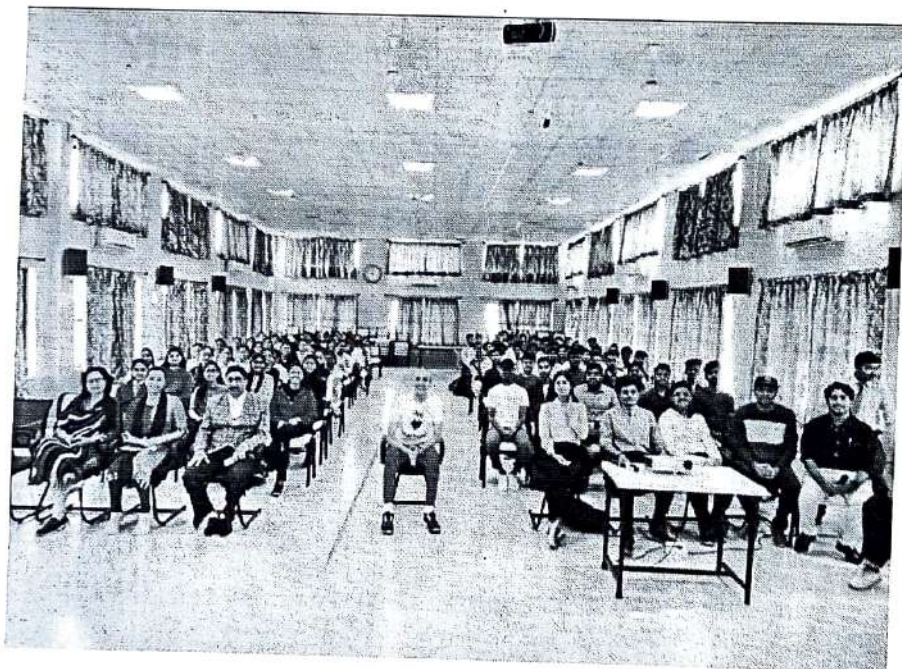
CC: Hon. Prof. P. M. Deshpande, Project Director  
Hon. Mr. S. M. Gosavi Director E & M



25th November 2022 Startup Rapid Fire event held in Sir Dr. M. S. Gosavi Hall with Startup & Innovation Cell and E-Cell GES' R.H. Sapat College of Engineering, Management and Research Nashik-422005



Welcome Speech



Group Photo With Guest Speaker: Mr. Brijesh Tejani

25th November 2022 Startup Rapid Fire event held in Sir Dr. M. S. Gosavi Hall with Startup & Innovation Cell and E-Cell GES' R.H. Sapat College of Engineering, Management and Research Nashik-422005



Group Photo with Guest, E-Cell, S&IC Core Members, Faculty Advisor & Head Dr. S. P. Agnihotri Sir

## **Get Link'D REPORT: 19/05/2023**

On 19th May, Sumer had the privilege of conducting a seminar at Gokhale Education Society's R. H. Sapat College of Engineering, Management Studies, and Research in Nashik. The seminar covered various topics, including LinkedIn, college life, engineering exams, and placement preparations. It was a memorable experience for both the students and myself, and he was pleased to share the details of the event.

As this was his first seminar outside of Mumbai, he was thrilled to visit Nashik and interact with the students of this esteemed college. The response from the students was overwhelming, and he could see their enthusiasm throughout the seminar. He decided to approach their problems through storytelling, and the students seemed to connect with this method. Their active participation and engagement further motivated him to deliver the best possible content.

The hospitality extended to him during his visit was exceptional. The students took care of all the arrangements, ensuring that everything was in place. He was grateful for his warm welcome and the efforts we put into making the event a success. The support he received from the entire team of E-CELL INOVCREATA, especially Bhushan Karape, Atharva Nikam, Roshan, Tejas, and the entire team, was commendable. Their dedication and hard work in organizing the seminar and other events demonstrate their commitment to providing exposure and opportunities to the college students. He would like to extend his heartfelt appreciation to the entire E-Cell team for their amazing efforts.

During the seminar, he emphasized the significance of LinkedIn in today's professional world. He discussed how students can leverage this platform to enhance their networking, showcase their skills, and explore career opportunities. Additionally, he further shared insights on college life, providing guidance on managing academics, extracurricular activities, and personal growth effectively. Furthermore, we delved into the preparation strategies for engineering exams and placement interviews.

He provided valuable tips and techniques to excel in these crucial phases of a student's academic journey. The interactive nature of the session allowed students to seek clarification on their doubts and gain practical knowledge.

The students thoroughly enjoyed the seminar and expressed their gratitude for the insights shared. It was evident that they found the storytelling approach engaging and relatable. Many students approached me afterward, seeking further guidance and expressing their newfound motivation to excel in their academic pursuits.



## Report on "Startup Awareness Program "

Event Name : Startup Awareness Program

Date : 25th April 2023

Venue : M.S.Gosavi Hall

Organized by : E-cell GESCOE

The Institute's Innovation Council, Startup and Innovation Cell (S&IC) GESCOE, successfully organized the "Start-up Awareness Program " on April 25th 2023. The spokesperson of the event was Er. Shreekant Patil who is an Entrepreneur and Founder of @Parent Nashik. The event was hosted by Sakshi Sangale & Aayush Kamble.

The program began with our Guests being welcomed with enthusiasm and Saraswati Vandana being performed by Ketan Inamdar to seek the blessings of the almighty. Dr.S.P.Agnihotri Sir held the dias where he elaborated about the event. Brief Introduction of the keynote speaker of the event, Er. Shreekant Patil sir, was given by the host. We greeted and welcomed our guest, Er.Shrikant Patil Sir, with a Bouquet & Memento by Dr.P.C.Kulkarni Sir.The principal, Dr.P.C.Kulkarni Sir, then addressed the students with his wise words.

The host then requested our Guest to take the dias and share his experiences with the students, which was the most anticipated part of the event. Keeping startups and its benefits in the forefront, he expertly highlighted how government programmes as well as the NIMA startup hub can assist entrepreneurs in reaching new heights in their startup journey. He also mentioned a few special schemes offered by the government for female entrepreneurs and encouraged women to take the most out of them.

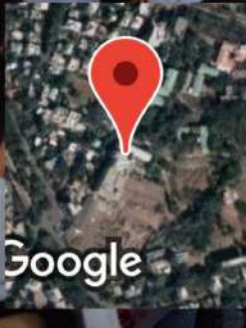
He shared his experiences of working with the central government for many years in various organizations. He talked about his experience in startups and NIMA Startup Hub which is Maharashtra's First private Hub. Further, he mentioned about the mission carried out by their hub to create 500 startups in Nashik by the end of the year 2023.

He also discussed the differences between MSMEs and Startups, as well as how startups are more beneficial than MSMEs. He also spoke about his accomplishments, which motivated the entire audience. Speaking about his experiences, he discussed his own entrepreneurial journey and all of the hard work he put in to get to this position today.

The event then came to an end. Students were now well-versed in all startup schemes, ideas, and terminologies.The event concluded with Atharva Nikam presenting a vote of thanks to the esteemed Principal Dr.P.C.Kulkarni Sir, our mentor Dr.S.P.Agnihotri Sir, and the respected Teachers attending the event. He also expressed his appreciation to Er. Shreekant Patil Sir for his valuable time, insightful comments, and excellent mentoring. It made a big impression on the audience. And thus the event concluded successfully.



GPS Map Camera



Nashik, Maharashtra, India

2Q35+QHV, Krishi Nagar, Nashik, Maharashtra 422005, India

Lat 20.004737°

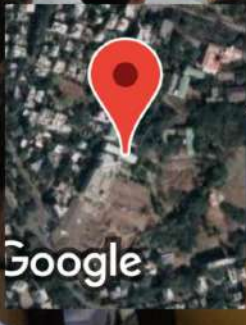
Long 73.759166°

25/04/23 10:59 AM GMT +05:30

Google



GPS Map Camera



Nashik, Maharashtra, India

2Q35+QP5, College Rd, Krishi Nagar, Nashik, Maharashtra 422005, India

Lat 20.004755°

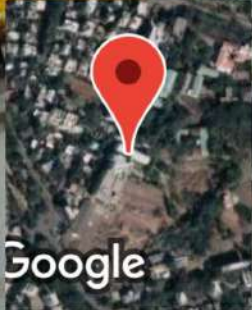
Long 73.759378°

25/04/23 11:11 AM GMT +05:30

Google



GPS Map Camera



**Nashik, Maharashtra, India**  
2Q45+3P5, Krishi Nagar, Nashik, Maharashtra 422005,  
India  
Lat 20.004784°  
Long 73.759238°  
25/04/23 11:11 AM GMT +05:30



GPS Map Camera



**Nashik, Maharashtra, India**  
2Q35+QHV, Krishi Nagar, Nashik, Maharashtra 422005,  
India  
Lat 20.004739°  
Long 73.75916°  
25/04/23 10:48 AM GMT +05:30







July 31, 2014

Nilesh Alone  
R.H. Sapat College of Engineering, Management Studies & Research  
Vidyanagar, Nashik  
Maharashtra, India 422005

Dear Nilesh:

Congratulations! We are delighted to confirm that you have been selected to be a 2014 CUDA Teaching Center. R.H. Sapat College of Engineering, Management Studies & Research has been selected as a CUDA Teaching Center based on your demonstrated commitment to advancing the state of parallel education using CUDA C/C++.

**Benefits.** Your status as a CUDA Teaching Center qualifies you for the following benefits:

- CUDA Teaching kit consisting of (1) Tesla K20, (2) Quadro 6000, and (1) GTX 680 GPUs as part of this award. Donated GPU models are subject to change. We request that you publish results or benchmarks using the Tesla, our flagship platform for compute, and acknowledge NVIDIA.
- (1) Copy of the [Programming Massively Parallel Processors](#) book authored by David B. Kirk & Wen-mei Hwu (second edition) and (1) copy of the GPU Gems book.
- Participation in the [Centers Reward Program](#) to receive special pricing on Tesla equipment. Check with an [NVIDIA OEM and Tesla Reseller](#) for details on this special pricing.
- Access to [webinars](#) for CUDA related programming from experts in various fields.
- Access to our technical team for support when needed.
- Access to the CUDA Cloud Training Platform {for access contact [Mark Ebersole](#)}.
  - Fully configured development systems you can use for hands-on labs and self-paced learning.
  - GPU-accelerated training cluster for students to learn how to use queue/sub workflow, MPI programming, and more.
- [NVIDIA-certified slides, hands-on lab exercises](#), and [additional course content](#) you can use in your classes.

**Expectations.** We expect that you will

- Include CUDA C/C++ as a substantial portion of the curriculum in at least one graduate or undergraduate recurring course on parallel programming.
- Participate in the [GPUComputing.net](#) forum, including the GPU education community.
- Provide occasional CUDA training available to other members of your University community.
- Encourage the active use of the CUDA training lab so that it is continuously booked.
- Keep NVIDIA informed of all major scheduling and course changes relating to the CUDA training courses.
- Provide NVIDIA with a course summary - what worked, what didn't, recommendation for improved course materials, etc.
- Participate in the Spring 2015 [GPU Technology Conference](#) in San Jose, CA, if you can.
- Post the CUDA Teaching Center Logo on your website and obtain permission for us to post your logo on the [CUDA Teaching Centers](#) webpage.

Any donations are considered unrestricted gifts and carry no obligations or deliverables except that they should not be charged overhead or indirect costs. Your CUDA Teaching Center status starts today and will end on July 31, 2015. As a CUDA Teaching Center, we will showcase your institution on our CUDA Teaching Center website.

We are pleased to be a partner in your efforts to advance parallel computing education at R.H. Sapat College of Engineering, Management Studies & Research and look forward to future collaborations this coming year.

Sincerely,

A handwritten signature in blue ink that reads "David P. Luebke". The signature is written in a cursive style and is positioned above a thin horizontal line.

David Luebke, Ph.D.  
NVIDIA Distinguished Inventor  
Sr. Director of Research  
NVIDIA Corporation

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Gokhale Education Society's

# R. H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES & RESEARCH

Affiliated to Savitribai Phule Pune University, Pune  
Recognized by Govt. of Maharashtra  
Approved by AICTE, New Delhi & DTE (M.S.), Mumbai  
NAAC Accredited B++ • ISO 9001:2015 Certified College



GES / RHSCOEMSR /  $\frac{32}{5}$  / 2022-23

10/5/2022

To,  
**Mr. P A Deshpande,**  
Founder & CEO  
Gilbert Maxwell Transformers Pvt Ltd,  
Nashik.

**Subject:** Invitation for "I-RISE 2022: A Science & Technology Project Exhibition"

Dear Sir,

Ours is a premium Engineering College in Nashik city, with 5 disciplines at UG and 5 PG programs. Our students and staff are well associated with you in the form of Industrial training, projects, workshop and seminars; which has indeed made the Industry Institute Interaction strong.

Since last five years, we are conducting the '**Interdisciplinary Project Exhibition/Competition**' under the aegis of '**I-RISE**'. This year, we have planned this exhibition on 12<sup>th</sup> of May, 2022.

We take this opportunity to invite you for the above exhibition on 12<sup>th</sup> May, 2022 (Thursday) at 11.00 AM.

Your expertise, guidance and suggestions to the students regarding their projects will help us to improve the exhibition eventually.

Thank you.

*Lead, Thanks*

*Prin. P. C. Kulkarni*

Dr. P. C. Kulkarni  
Principal



Yours truly,

*Prof. P. M. Deshpande*  
Prof. P. M. Deshpande  
Director (P)



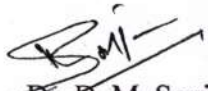
Gokhale Education Society's  
**R. H. Sapat College of Engineering,  
Management Studies & Research, Nasik -  
422005**





**Science & Technology Project Exhibition  
I-RISE  
12<sup>th</sup> May 2022**

**List of Winners after evaluation**

Rank	Name of Student	Project Title	Cash Prize Amount
First	MR. AMEY GAIKWAD	PLC based Automation for Optimum Load Sharing between Power Transformers	
	MR. PRADIP KOMBLE		
	MS. SHOBHNA PATIL		
	MR. SHRIKANT KADAM		
Second	AHIRE SHAILESH VINOD	TEG integrated forced Draught improved Biomass Cook-stove	
	MAHAJAN YATENDRA RAVINDRA		
	PATIL HITESH JITENDRA		
	SINGH SURAJ DILEEP		
Second	ABHISHEK D. DIXIT	Gesture Controlled UAV	
	MANAS N. JAKATDAR		
	SAMPADA V. RAUT		
Third	PRASAD KATKADE	Surveillance Bots: Using Swarm Intelligence & IOT	
	ROSHAN KOLHE		
	PRANJAL NAWARKAR		
	SHARVARI TAMBOLI		
Third	VAIBHAV AMRUTKAR	Seismic analysis of elevated RCC water tank	
	GANESH BHAMARE		
	DEEPAK GADEKAR		
	PRIYANKA SONAWANE		

  
Dr. D. M. Sonje  
I Rise Coordinator

  
Dr. P. C. Kulkarni  
Principal

  
Prof. P. M. Deshpande  
Project Director

# सपट अभियांत्रिकीत 'आय-राइज' प्रदर्शन

## सकाळ वृत्तसेवा

नाशिक, ता. १४ : कॉलेज रोड येथील आर. एच. सपट अभियांत्रिकी महाविद्यालयात 'आय-राइज' प्रकल्प प्रदर्शन व स्पर्धा पार पडली. ऑक्टोबरातील विद्यार्थ्यांनी स्पर्धेत सहभाग नोंदवला. प्रदर्शनाचे उद्घाटन संस्थेचे प्रकल्प संचालक पी. एम. देशपांडे आणि प्राचार्य पी. सी. कुलकर्णी यांच्या हस्ते झाले.

परीक्षक म्हणून गिल्बर्ट-मॅक्सवेल कंपनीचे पी. ए. देशपांडे, एम्पायर प्लास्टिक कंपनीचे समाधान माळा, शिव इलेक्ट्रिकल्सचे पंकज पगार, महाविद्यालयातील ए. ए. देशमुख यांच्यासह नीलेश पाटील, प्रशांत अहिरे, सुनील भोर, सविता भंडार, संजय देशमुख, बी एस. से. संस्थेचे आस्थापना संचालक शैलेश गोसावी आदी उपस्थित होते. प्रदर्शनात सुमारे तीस प्रकल्प सादर करण्यात आले. याअंतर्गत सिव्हिल, इलेक्ट्रिकल, इन्टीसी, मेकॅनिकल,



नाशिक : सपट अभियांत्रिकी महाविद्यालयात झालेल्या प्रदर्शनाची पाहणी करताना मान्यवर.

## यांच्या प्रकल्पाची झाली निवड

अमेय गायकवाड, प्रदीप कोंबळे, शोभना पाटील, श्रीकांत कदम यांच्या प्रकल्पाची निवड करण्यात आली. तसेच शैलेश अहिरे, यत्येन्द्र महाजन, हितेश पाटील, सूरज सिंघ यांच्या प्रकल्पाचीही निवड झाली आहे. तसेच, अभिषेक दीक्षित, मानस जकातदार, संपदा राऊत यांच्या प्रकल्पासह प्रसाद कातकाडे, रोशन कोल्हे, प्रांजळ नावारकर, शर्वरी तांबोळी आणि वैभव अमृतकर, गणेश भामरे, दीपक गाडेकर, प्रियांका सोनवणे यांच्या अशा एकूण पाच संघांची उत्कृष्ट प्रकल्प म्हणून निवड करण्यात आली.

कॉम्प्युटर आदी विभागाचे विविध प्रकल्प सादर केले. परीक्षणानंतर सर्वोत्तम प्रकल्प घोषित करण्यात

आले, अशा माहिती प्रदर्शनाचे समन्वयक डॉ. डी. एम. सोनजे यांनी दिली. कार्यक्रम संस्थेचे

प्रकल्प संचालक पी. एम. देशपांडे यांच्या संकल्पनेतून आयोजित केला होता.



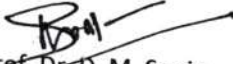
Gokhale Education Society's  
R H Sapat College of Engineering, Management Studies and Research, Nashik  
Avishkar 2022- Collège Level Competition


**List of Participants**

Name of the Department	Year (SE/TE/BE)	Poster No	Project Title	Name of the Students	Mobile no of the students	Email of the students
Computer Engineering	BE	1	Next Gen Network Interlinking System.	Bhushan Anil Karape	7776892254	bhushan.karape@ges-coengg.org
				Tejas Shailendra More	9552863806	tejas.more@ges-coengg.org
				Atharva Vijay Nikam	9637961225	atharva.nikam@ges-coengg.org
③ Computer Engineering	BE	2	Janata lawyer Portal.	Kalpesh S. Mandawade	7391858740	kalpeshsm29@gmail.com
				Shruti Santosh Rasane	7666232590	rasaneshruti@gmail.com
				Pramod Sanjay Kumavat	7758998859	pramod.kumavat@ges-coengg.org
				Divya Nandalal Bhamare	9579444683	divyabhamare84@gmail.com
Mechanical Engineering	BE	3	Design optimization and analysis of car bumper with the implementation of hybrid bio composite material	Deo Pranav Prasad	9890251837	deopranavwork@gmail.com
				Ansari Adnan Nisar	7774087112	adnan.ansari@ges-coengg.org
				Patil Tejas Mahendra	7719828744	tejas7748@gmail.com
				Suralkar Aishwarya	9834072991	aishu25999@gmail.com
Mechanical Engineering	BE	4	Design optimisation and analysis of car side mirror housing with the implementation	Kale Piyush Shrikant	8669195217	piyush.kale@ges-coengg.org
				Sali Dhruv Rajesh	8208440262	dhruv.sali@ges-coengg.org
				Shaikh Adnan Hajid	9404266441	shaikh.adnan@ges-coengg.org

			of hybrid bio-composite material.	Chaudhari Jayesh Bhatu	9356905655	jayesh.chaudhari@ges-coengg.org
✓ Electrical Engineering	BE	5	Digital Fuel Monitoring And Controlling System	Shybhram Kailas Kumawat	9561791744	shubham45kk@gmail.com
				Tejas Somnath Pagar	9075328219	
				Tanmay Sanjay Ugale	7767894999	
				Jayesh Nandkumar Wadlekar	9881214634	
				Isha Kulkarni	7796482645	isha.kulkarni@ges-coengg.org
✓ Electrical Engineering	TE	6	Linear Induction Based Electric Vehicle	Sakshi Bhamare	9359293416	
				Mayank Kulkarni	9834613924	
				Jayesh Khairnar	9960222755	
				Dhanashree Nikam	8805622928	dhanashree.nikam@ges-coengg.org
✓ Electronics & Telecommunication Engineering	BE	7	Design & development of Flexible Printed Dipole Antenna	Komal Bahiram	8975666245	komal.bahiram@ges-coengg.org
✓ Electronics & Telecommunication Engineering	TE	8	Automatic bike stand controller	Shubham gajanan kankarej	8087424688	shubham.kankarej1@ges-coengg.org
				Vishal Subhash Kashyap	9890775229	vishal.kashyap1@ges-coengg.org
✓ Civil Engineering	BE	9	Design of g+8 rcc structure using etabs	Shisode ritesh sunil Somani karan nitin Deshmukh shubham sachin Pingle neha kiran	9137670006 8999612529 9765458411 9307120909	ritesh.shisode@ges-coengg.org somani.karan@ges-coengg.org shubham.deshmukh@ges-coengg.org nehapingle4@gmail.com
Civil Engineering	BE	10	Smart irrigation based on IOT	Akshada Raghunath Rote	9011070069 9822590684 9284888623 9552181753	akshadarote2001@gmail.com gitakorale123@gmail.com poojakotkar11@gmail.com

				Geeta Balasaheb Korale Kotkar Pooja Kailas Satpute Shivani Sunil		shivanisatpute582@gmail.com
② MCA Engineering	SYMCA	11	ARMS- Animal Rescue Management System	Gurmeet Sethi	9156733950	gurmeet.sethi1@ges- coengg.org
				Prashant Vispute	8308147775	pavispute10@gmail.com
				Vijendrasingh Raul	9168380688	raulvijendra786@gmail. com
① MCA Engineering	SYMCA	12	Self Attendance System	Saurabh Rao	9923775351	saurabhsrao@hotmail.co m
				Ashokabhavan Anju Ashokan	7030247077	anjuashokabhavan2000 @gmail.com
				shubhangi vijay sawant	8767828404	shubhangi.sawant1@ges -coengg.org

  
Prof. Dr. D. M. Sonje  
ARC Co-ordinator

  
Prof. Dr. P. C. Kulkarni  
Principal





Gokhale Education Society's



R H Sapat College of Engineering, Management Studies and Research, Nashik

I-RISE  
Science & Technology Exhibition  
Feb 16, 2019

12/02/2019

Following Committee is formed for the execution of the event.

Sr. No	Name of the faculty/staff	Department	Signature
1	Dr. P. B. Nehe –Coordinator	Mechanical	
2	Prof. S H Sonawane	Mechanical	
3	Prof. L B Chintamani	Mechanical	
4	Dr. R. V. S. Ramakrishna	Electrical	
5	Prof. M P Joshi	E & Tc	
6	Prof M S Deole	E & Tc	
7	Prof R S Jagale	Computer	
8	Prof K C Kulkarni	Computer	
9	Prof. P R Vaidya	Civil	
10	Prof Bhakti Vaidya	Civil	
11	Mr. J G Jagdale	Electrical	
12	Mr. Rajan Pathak	Office	

Dr. P. C. Kulkarni

Principal

Prof. P. M. Deshpande

Director (P)

Note – Meeting tomorrow, 13/2/2019 at 12.00 pm.

Gokhale Education Society's

R.H.Sapat College Of Engineering Management Studies And Research, Nashik

I-Rise Project Exhibition

(17.02.2019)

I-rise is one of the prestigious technical events organised at GESRHSCOEM&R under the I<sup>3</sup> cell (Industry Institute Interaction) since 2018. It is an institute level project exhibition in which students of final year, from various departments, present their projects. This is a platform for the students to showcase their technical knowledge, creativity and communication skills.

The event was organised on February 17, 2019. The projects in the exhibit were multidisciplinary, application oriented and beneficial to the society. All projects were visited by eminent guests from industry.

Mechanical Engineering department presented 5 projects having wide range of subjects. *Automatic ironing machine, LPG gas cooling system and Design and fabrication of 3D printers* are worth a mention. Automation was a key parameter in these projects.



Projects from mechanical department

Five groups represented Computer Engineering Department. The projects were application based and designed for social benefits. They include Smart car based on IOT, App for individual healthcare entitled 'HealthCops'. The ScrapDeal project addressed the need of scrap disposal. Students have developed an application which helps in developing direct communication between the scrap generator and scrap dealer.



Projects from computer department

Electrical Engineering department also shared an equal pie with projects. They include Development of air pollution monitoring system, Recovery of energy from waste heat, conversion of vibrations into electricity and development of sensor based navigation system for blind people. The projects gained more attention due to their innovativeness.

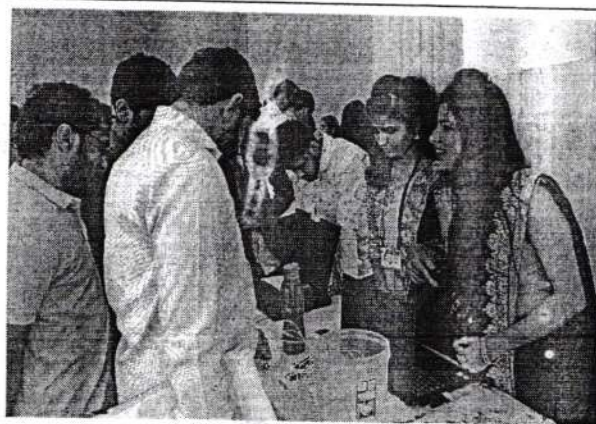
Department of Electronics and telecommunication also presented five projects. Students have developed two IoT based gadgets namely "Smart Mirror" and "Electronic nameplate". Electronic water level controller is another device developed by the students to check wastage of water. Smart irrigation system was a sensor based project designed to irrigate the farms as per demand, there by conserving water.



Projects from Electronics and telecommunication department

Four projects were exhibited by Department of civil engineering. In one project plastic was used in concrete as replacement of coarse aggregate. It emphasises on waste minimization and reutilisation approach. *Automatic contour marker* and *Total tripod stand* brought in multidisciplinary approach.

Every project was evaluated on the grounds of innovativeness, Real world application, interdisciplinary approach, technical knowledge and presentation skills of the students. Mr. Pravin Vaidya (Manager, Operational Excellence, SIEMENS LTD, Nashik) , Mr. Virendra Deshpande (Manager, Product Development, SIEMENS LTD, Nashik), \_\_\_\_\_, worked as jury members.



Gokhale Education Society's  
R H Sapat College of Engineering, Management Studies and Research, Nashik

I-RISE 2019


Science & Technology Exhibition , 16<sup>th</sup> Feb 2019

**Winners List**


Rank	Project Title	Student Name	Guide Name
1	Air source Heat Pump	Amit Sonawane Tushar Atre Rahul Vaishanv Anit Tirole	Prof. S.H. Sonawane
2	Exploring skills of villagers through android app.	Gaikwad Arati Uvnila Pawar Dixit Mansi Vrushali Patil	Prof. N. V. Alone
3	Smart drip Irrigation	Nishikant Deshmukh Shubham Kasar	Dr. S. P. Agnihotri
3	On demand impedance provider to reduce fault current	Joglekar Shruti Kaushalye Amruta Sharma Aishwarya Sonawane Shraddha	Prof V R Naphade
3	Converting conventional contour marker to automatic contour marker	DHAINJE NIKITA KORDE PRATIKSHA MAHAJAN SHRUTI PATIL SUKANYA NIKAM KALYANI CHAVAN PRATIK PATIL PURVESH	Prof. S .B Joshi Dr. N. D. Chau'hari

  
Dr. P B Nehe

Coordinator

  
Dr. P. C. Kulkarni

Principal

  
Prof. P. M. Deshpande

Director (P)

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ISHRAE

# Charter

**ISHRAE Student Chapter**  
Sponsored by ISHRAE Nashik Sub Chapter  
Gokhale Education Society's,  
R H Sapat College of Engineering,  
Management Studies & Research

An authorised Student Chapter of the

**Indian Society of Heating, Refrigerating  
and Air Conditioning Engineers**

- ★ This Student Chapter is established for the purpose of advancing the arts and sciences of Heating, Refrigeration, Air Conditioning and Ventilation, and the allied arts and sciences, for the benefit of the general public.
- ★ This Student Chapter shall be governed by the provisions of the Society's Constitution and Bye-laws, the Rules promulgated by the Board of Governors in harmony therewith, and any amendments to the foregoing.
- ★ Only Student Members of the Society in good standing shall be eligible to become and remain members of this Student chapter.
- ★ This Student Chapter is revocable by action of the Board of Governors taken pursuant to the Society's Bye-laws and Rules.

Granted this 18th September 2017

**RICHE MITTAL**  
ISHRAE National Secretary

**VISHAL KAPUR**  
ISHRAE National President

Sd/-

**DEEPAK ARZARE**  
Chair- Student Activities

**AMAR GROVER**  
President - ISHRAE  
Nashik Sub Chapter

SC/2017-18/017

# ISHRAE student chapter



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Gokhale Education Society's

## R. H. SAPAT COLLEGE OF ENGINEERING, MANAGEMENT STUDIES & RESEARCH

Affiliated to Savitribai Phule Pune University, Pune  
Recognized by Govt. of Maharashtra  
Approved by AICTE, New Delhi & DTE (M.S.), Mumbai  
NAAC Accredited B++ • ISO 9001 : 2015 Certified College



GES / RHSCOEMSR / CIVIL/155

To,  
The Chairman – Student Chapter  
Indian Plumbing Association  
Nashik

Date :  
Date: 14-03-2023

Sub : DETAILS OF STUDENT MEMBERS.

Dear Sir,

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Kindly enroll above students as Student Members of the Student Chapter and issue them necessary confirmation / certificates.

Thanking you,

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of the

### IPA Student Chapter

Gokhale Education Society's R. H. Sapat College of Engineering  
& Management Studies & Research, Nashik

Sponsored by IPA Nashik Chapter

## Indian Plumbing Association

This Student Chapter is established for the purpose of advancing the Art and Sciences of Plumbing Engineering and allied sciences and engineering, for the benefit of the general public.

This Student Chapter shall be governed by the provisions of the Association's Memorandum & Articles of Association and Guidelines promulgated by the National Executive Committee in harmony, therewith and any amendments to the foregoing.

Only Student Members of the Association in good standing shall be eligible to become and remain members of the Student Chapter.

This Student Chapter is revocable by the action of the National Executive Committee taken pursuant to the Association's By Laws and Rules.

Granted this 28th day of September, 2017

**Indian Plumbing Association**

President  
IPA Head Quarter

Secretary  
IPA Head Quarter

Chairman  
IPA Nashik Chapter

World Plumbing Day





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PLUMBING  
PROFESSIONALS  
LEAGUE 2020**

Learning ▶ Knowledge ▶ Quiz  
“A Competition To Unite”



**ON VIRTUAL  
PLATFORM**   
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**2017**



**2018**



**2019**



**2020?**



# IPPL Participating Organisations 2017-18-19



Learning ▶ Knowledge ▶ Quiz  
"A Competition To Unite"

## Real Estate Developers



## Architects/Consultants



ENGINEERING CREATIONS PUBLIC HEALTH CONSULTANCY PVT.LTD

## IPPL ORGANIZING COMMITTEE



Pravin Bora  
Convener



Abbas Lehry  
Member



B.O.Prasanna Kumar  
Member



C S Gupta  
Member



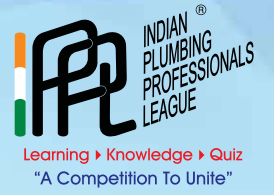
Nilesh Gandhi  
Member



Rahul Dhadphale  
Member



Sharat V Rao  
Member



# IPPL JOURNEY



## Topic & Schedule - IPPL 2020

### Sessions on Saturdays

Week	Date	Topics	Timings
1	26th September 2020	Water Supply and Distribution Pumping Systems	6 pm to 9 pm
2	3rd October 2020	Fixtures / Fittings / Valves and Appurtenances Hot Water System	6 pm to 9 pm
3	10th October 2020	WTP and STP Water Efficient Product - India	6 pm to 9 pm
4	31st October 2020	Storm water Drainage Rainwater Harvesting Terminologies	6 pm to 9 pm
5	7th November 2020	Codes and Standards Sanitary Drainage System, Indirect waste	6 pm to 9 pm
6	21st November 2020	Challenges in Execution	6 pm to 9 pm

### Sessions on Sundays

Week	Date	Topics	Timings
1	27th September 2020	Water Supply and Distribution Pumping Systems	10 am to 1 pm
2	4th October 2020	Fixtures / Fittings / Valves and Appurtenances Hot Water System	10 am to 1 pm
3	11th October 2020	WTP and STP Water Efficient Product - India	10 am to 1 pm
4	1st November 2020	Storm water Drainage Rainwater Harvesting Terminologies	10 am to 1 pm
5	8th November 2020	Codes and Standards Sanitary Drainage System, Indirect waste	10 am to 1 pm
6	22nd November 2020	Challenges in Execution	10 am to 1 pm

### Learn from Plumbing Gurus



B S A Narayan



B O Prasanna Kumar



H R Ranganath



M K Gupta



Milind Shete



Mimesh Shah



Nilesch Gandhi



R Kandeepan



Rahul Dhadphale



Rahul Sakore



Sandeep Goel



Sharat Rao



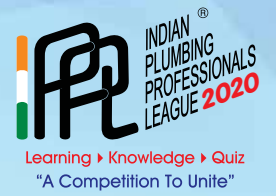
Subhash Deshpande



Dr. S Virapan



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or contact



#### Pravin Bora

Convener, IPPL Committee  
Chairman, IPA Pune Chapter  
Email: [pune@indianplumbing.org](mailto:pune@indianplumbing.org)

#### Sushanta Sinha

General Manager – Marketing & Events  
IPA HQ  
Email: [gm.events@indianplumbing.org](mailto:gm.events@indianplumbing.org)

IPA Chapter Chairmen from Ahmedabad, Bengaluru, Chandigarh, Chennai, Coimbatore, Delhi, Goa, Hyderabad, Indore, Jaipur, Kochi, Kolhapur, Kolkata, Mumbai, Nagpur, Nashik, Navi Mumbai, Pune, Raipur, Surat, Trivandrum, Vadodara, Visakhapatnam

18.09.2020

**Attendance:**

No's	Name	Contact No	Registration Done	Mail Sent on nashik@indianplumbing.org
1	Pawan Wani	88882 48703	yes	yes
2	Noopur Kulkarni	77097 91239	yes	yes
3	Akshata Hajare	74481 57203	yes	yes
4	Sonaje Hrishikesh	72180 70710	yes	yes
5	Anagha Ambhore	88057 12805	yes	yes
6	Jayesh Jitendra Mahajan	90759 03287	yes	yes
7	Sayali Chinchole	94048 91962	yes	yes
8	Krupa Patil	90964 60022	yes	yes
9	Shital Navale	92845 88069	yes	yes
10	Devika Mahindrakar	84848 74271	yes	yes
11	Himgauri kuwar	70666 91643	yes	yes
12	Vedika Tarle	77984 88423	yes	yes
13	Jesika Lalwani	80072 00068	yes	yes
14	Darshan Karpe	93257 87780	yes	yes
15	Gade Apurva (Mechanical)	74478 11664	yes	yes
16	harshada shivaji sandhan	93737 99146	yes	yes
17	Yogendra Kulkarni	95797 84552	yes	yes
18	Jyoti Doke	8698832553	yes	yes
19	Pranjali Pawar	8421382950	yes	yes
20	Rutuja Sanap	9822083632	yes	yes
21	Renuka Kale		yes	yes
22	Meghana Pawar		yes	yes
23	Niraj Patil		yes	yes
24	Rinku Ohal		yes	yes
25	Sarika Gangurde		yes	yes
26	Pankaj Chavhan		yes	yes
27	Saurabh Dhokale		yes	yes
28	Sagar Bhamare		yes	yes

[BACK](#)

# Gokhale Education Society's



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GES / RHSCOEMSR / 23-2021 - 22

Date: 14.06.2021

## Civil Engineering Department Testing and consultancy cell SOIL TESTING REPORT

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik

Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bunglow, Opp.Vanaraj Soc., Dwaraka, Nashik, Maharashtra

Sr. No	Test Name	Result	Range	Conclusion	Remarks
1.	Sieve Analysis	$C_u = 4.67$ $C_c = 1.0$	$C_u > 4$ Gravel type $C_c$ 1-3 Well graded	Well Graded Gravel Type Soil	As per IS: 2720-1 (1983)
2.	Liquid limit of Soil	39.54 %	L.L = 0-35 Low compressibility 35-50 Medium compressibility > 50 high compressibility	Medium compressibility	As per IS: 2720 (Part 5) 1985
3.	Plasticity index of soil	10.54	< 10 (sand) 10-15 (Silt) 15-100 (clay)	Silt, Plastic limit = 29 % PI = 10.54, Medium plasticity	As per IS: 2720 (Part-5) 1985.
4.	Bulk density and dry Density of soil	1.49 g/cc & 1.25 g/cc	1.1 g/cc to 1.6 g/cc	Dry Density is low	Sand Replacement Method
5.	OMC & MDD of Soil	13 % & 1.42 g/cc	1.1 g/cc to 1.6 g/cc	Optimum moisture content of soil is low which may results in low density of soil.	Standard Proctor Test IS 2720-8 (1983)

Note: 1. Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work construction. Back filling material should be rubble soling and well compacted

Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by client.

15.6.21  
 Mr. Pankaj Pagare  
 Consultancy  
 In-charge

15.06.21  
 Mr. Nilesh Masne  
 Lab In-charge

15-06-2021  
 Dr. N.D. Chaudhari  
 Prof & Head of Civil Dept.

Dr. P.C Kulkarni  
 Principal



**PRINCIPAL**  
 G.K.B.'s R. H. Sapat College of Engg.  
 Egt. Studies & Research  
 Prin. T.A. Kulkarni Vidyanager, Nashik-5.

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GES / RHSCOEMSR / 23-2021-22

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**Location:** - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik

**Name of the client:** - Sadanand Buildcon & Consultant, Jai Malhar Bunglow, Opp. Vanaraj Soc., Darga Nashik, Maharashtra (422011)

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**Note: 1.** Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work/construction. Back filling material should be rubble soling and well compacted  
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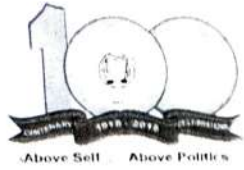
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GES / RHSCOEMSR / 23-2021 - 22

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Student copy

<b>Name :</b> Sadanand Buildcon & Consultant	<b>Class :</b> Other Receipts Receivable
<b>A/C No. :</b>	<b>Roll No. :</b>
<b>Date :</b> 15-Jun-2021	<b>Division :</b>
<b>Receipt No. :</b> 91	<b>Fee Category :</b>
<b>Bank Details :</b> Cheque No.: Bom Cheq.No. 137154	

**Fee Details**

Consultancy Fee	11,050.00		
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O/S: 11,050.00 Cr

**Narration :**

**Fee In Words : INR Eleven Thousand Fifty Only** **Paid Fee** 11,050.00

**INSTRUCTIONS :** (1) Please preserve this receipt for refund of deposits and fees (2) Fees once paid will not be refunded in account of cancellation of admission. (3) Receipt must be produced when demanded by the office. (4) Please check the amount paid in the receipt and amount actually paid before leaving the counter. No complaints will be entertained afterwards. (5) Transfer Certificate will not be issued unless all the arrears of fees are paid.

*[Signature]*  
Principal

A/C Clerk

BY PPF/150000/5/19

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**R.H.Sapat College of Engineering**  
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Student copy

<b>Name :</b> Sadanand Buildcon & Consultant	<b>Class :</b> Other Receipts Receivable
<b>A/C No. :</b>	<b>Roll No. :</b>
<b>Date :</b> 15-Jun-2021	<b>Division :</b>
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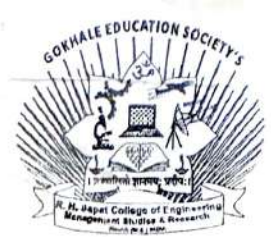
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**A/C Clerk**

*[Signature]*  
Principal



# Gokhale Education Society's R. H. Sapat College of Engineering Management Studies & Research



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Ref: GES/RHSCOEMSR/CIVIL/2020-21/

Date: 11-08-2021

GES / RHSCOEMSR / 108 / 2020-22

## MATERIAL TESTING REPORT

Name of Work: - Mix Design of Concrete Grade M:20 & M:25

Location: - Khadak Malegaon (Gat No.87/3)

Name of the client: - Mr.M.R,Mahajan

### [A] DATA SUPPLIED: (By Client)

- |   |                                       |
|---|---------------------------------------|
| (1) Grade of Concrete                         | : M:20 & M:25                         |
| (2) Degree of workability (slump)             | : Not mentioned                       |
| (3) Type of Cement                            | : OPC-53 Grade (Birla Shakti Cement). |
| (4) Minimum Cement Content per m <sup>3</sup> | : Not mentioned                       |
| (5) Type of sand                              | : Stone Crush                         |
| (6) Maximum Size of Coarse Aggregate          | : 20 mm                               |

### [B] PROPERTIES OF MATERIAL:

The properties of Cement, Fine aggregates and Coarse aggregates have been determined as per relevant IS codes.

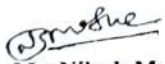
Sr. No.	Test Name	Result	Range	Conclusion	Remarks
1.	Fineness of Cement	3.0 %	Should not more than 10%.	It satisfies the criterion as specified by IS code.	As per IS: 4031 (Part-1) - 1988 fineness of cement should not be more than 10%.
2.	Consistency of Cement	32.0 %	26-33%	It satisfies the criterion as specified by IS code.	As per IS: 4031 (Part-1) - 1988 consistency of cement should be in the range of 26-33%.
3	Moisture Content of Fine Aggregate	2.85%	0-5%	Found Satisfied	--


Sr. No.	Test Name	Result	Range	Conclusion	Remarks
4.	Fineness Modulus of Fine Aggregate (Sand)	4.05	i. Fine sand - 2.2-2.6 ii. Medium sand - 2.6-2.9 iii. Coarse sand - 2.9 - 3.2	Sand having a fineness modulus more than 3.2 will be unsuitable for making satisfactory concrete.	To make satisfactory concrete please use finer type crushed sand.
5.	Specific Gravity of Coarse Aggregate	2.58	2.5-3	It satisfies the criterion as specified by IS code.	IS 2386-part-III 1963 (2002)
6.	Water Absorption of Coarse Aggregate	1.57%	0.1-2%	The maritime code BS 6349 specifies that water absorption should not exceed 3%.	IS 2386-part-III 1963 (2002)
7.	Fineness Modulus of Coarse Aggregate	7.45	5.5 - 8	The value of Fineness Modulus is higher so it indicates the higher particle size is available in coarse aggregate.	From the sieve analysis of Coarse aggregate it was observed that the coarse aggregate is over sized so please take care for Concrete Cover. IS 383:1970 (2002)
<p>Note: 1. This report, in full or in part, shall not be published. This testing report is valid only for the sample provided by the client.</p>					


The report is based on particular samples of cement, sand and coarse aggregates submitted by the client for mix proportion.

*This certificate or report may not be published for commercial purpose except in full or part unless permission for the publication of an approved report has been obtained from the Principal GES RHSMS&R Nashik.*

  
Mr. Milind M. Thombre  
Consultancy  
In-charge

  
Mr. Nilesh Masne  
Consultancy  
In-charge

  
Dr. N.D. Chaudhari  
Prof & Head of Civil  
Dept.

  
Dr. P.C. Kulkarni  
Principal



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Date: 11-08-2021

GES / RASCOENSH  
 Report for : Report for Mix Design of Concrete Grade M :20 & 25  
 Client : Mr.M.R.Mahajan  
 Project : Khadak Malegaon (Gat No.87/3)  
 Ref : Your letter dated

**INTERIM REPORT FOR MIX DESIGN  
 (Based on 7 days Strength)  
 of  
 Concrete Grade M: 20 & 25**

The tentative mix proportion for the mix design referred by you is given below based on 7 days strength of mix trails. Tentative proportion for M: 20 &25 grade of concrete.

**1. M: 20 CONCRETE GRADE MIX DESIGN (Birla Shakti OPC 53 Grade Cement)  
 Recommended Concrete Mix Proportion for M - 20 (By Weight) :**

Cement	Water	Sand	Coarse Aggregate (all in size)
365kg	189.8 Ltr.	725kg	1125 kg

Slump observed = 25-50mm, W/C = 0.52

**Compressive Strength (N/mm<sup>2</sup>)**

Sr. No.	7 Days
1.	18.91
2.	17.68
3.	18.53

**2. M: 25 CONCRETE GRADE MIX DESIGN (Birla Shakti OPC 53 Grade Cement)  
 Recommended Concrete Mix Proportion for M - 25 (By Weight) :**

Cement	Water	Sand	Coarse Aggregate (all in size)
385kg	196.3 Ltr.	710kg	1110 kg

Slump observed = 25-50mm, W/C = 0.51

**Compressive Strength (N/mm<sup>2</sup>)**

Sr. No.	7 Days
1.	19.30
2.	19.46
3.	19.60

**NOTE:** (1) The above proportion is based on 7 days compressive strength of concrete.  
 (2) If required minor correction may be made after achieving 28 days strength.

Mr. Milind M. Thombre  
 Consultancy  
 In-charge

Mr. N.S. Masne  
 Consultancy  
 In-charge

11-08-2021  
 Dr. N.D. Chaudhari  
 Prof & Head of Civil  
 Dept.

Dr. P.C. Kulkarni  
 Principal



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Ref: GES/RHSCOEMSR/CIVIL/2020-21/ 102

Date: 11.08.2021

GES / RHSCOEMSR /

**Civil Engineering Department**

Testing and consultancy cell

**TMT BAR TESTING REPORT**

Name of Work : - Testing of Material  
Location : - Gat No. 87/3 Khadak Malegaon, Nashik  
Name of the client : - M.R Mahajan, Nashik

Sr. No.	$d_0$ (mm)	$L_0$ (mm)	$L_1$ (mm)	Ultimate Load (kN)	Ultimate Tensile strength $N/mm^2$	Yield Strength $N/mm^2$	% Elongation	Specifications As per IS-1786:2008	Remark
1	08	40	51.5	41.78	830.26	580	28.75	1. Min. Elongation = 12 % 2. Ultimate Strength = 545 $N/mm^2$ 3. Yield Strength = 500 $N/mm^2$	Test Conducted as per As per IS 1608 : 2005
2	10	50	65	65.3	831.42	582	30		
3	12	60	73	103.4	914.25	640	21.66		
4	16	80	107	166.4	827.60	580	33.75		
5	20	100	143.3	255.2	812.32	568	43.3		

Note: 1. The tested material is satisfying the specification as given by IS-1786:2008 and hence found to be adequate for the use of construction purpose.  
Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by the client.

**Abbreviations:**

$d_0$  = Diameter of specimen  
 $L_0$  = Gauge length  
 $L_1$  = Gauge length after fracture

Mr. Pankaj Pagare

Consultancy In-charge

Mr. M.M Thombre

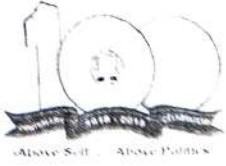
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GES / RHSCOEMSR / 23  
18

12024-22

Date: 24.06.2021

**Civil Engineering Department**  
Testing and consultancy cell

**CBR Soil Testing Report**

Name of Work: - Geo technical investigation at HPCL LPG Plant site.


Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.

Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bunglow , Opp.Vanaraj Soc., Dwarka ,  
Nashik, Maharashtra (422011)

Sr. No.	Test Name	Result	Range	Conclusion	Remarks
1.	California Bearing Ratio	CBR=10.92 %	Clay- 2% Sand from - 7% (poorly graded) to 10% (well graded), well graded sandy gravel - 15% Clay sand 5-20, silty gravel 20-60%, gravel from 30-60% poorly graded to 40-80% if well graded.	Well graded sandy gravel	As per IS: 2720 part 16-1987

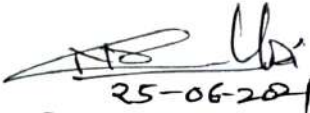
Note: 1. Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work/construction. Back filling material should be rubble soling and well compacted


Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by client.

  
Mr. Pankaj Pagare  
Consultancy Cell  
In-charge

  
Mrs. Shilpa M. Kale

Test Conducted By

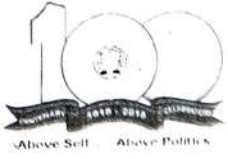
  
25-06-2021  
Dr. N.D. Chaudhari  
Prof & Head of Civil  
Dept.

  
25/6/2021  
Dr. P.C. Kulkarni  
Principal





# Gokhale Education Society's



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GES / RHSCOEMSR /  $\frac{23}{14}$

12021-22

Date: 24.06.2021

## Civil Engineering Department

Testing and consultancy cell

### CBR Soil Testing Report

Name of Work: - Geo technical investigation at HPCL LPG Plant site.


Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.


Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bunglow , Opp. Vanaraj Soc., Dwarka ,  
Nashik, Maharashtra (422011)

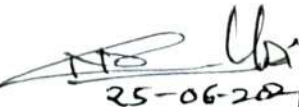
Sr. No.	Test Name	Result	Range	Conclusion	Remarks
1.	California Bearing Ratio	CBR=10.92 %	Clay- 2% Sand from - 7% (poorly graded) to 10% (well graded), well graded sandy gravel - 15% Claye sand 5-20, silty gravel 20-60%, gravel from 30-60%poorly graded to 40-80% if well graded.	Well graded sandy gravel	As per IS: 2720 part 16-1987

Note: 1. Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work/construction. Back filling material should be rubble soling and well compacted

Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by client.

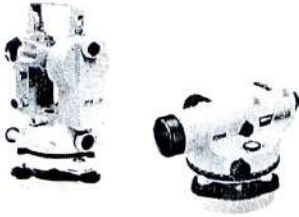
  
Mr. Pankaj Pagare  
Consultancy Cell  
In-charge

  
Mrs. Shilpa M. Kale  
Test Conducted By

  
Dr. N.D. Chaudhari  
Prof & Head of Civil  
Dept.

  
Dr. P.C. Kulkarni  
Principal





Mob. No. +91 9890815240  
7588702642

**BHOGE ENTERPRISES**  
Surveying, Scientific & Mathematical  
Instrument Supply, Repairing & Calibration.  
GST No 27ANHPB6251G1Z7

Ref No. BE/QT/21-06-129

Date : 16.06.2021

**QUOTATION**

To,  
The principal,  
R.H. Sapat College of Engineering Management studies & Research, Nasik.  
Sub : Quotation for Calibration proving ring for CBR machine 10KN.

SR. NO.	Description	(Nos)	RATE (RS)	Amount
1.	Calibration of Proving ring 10KN for CBR machine.	1	2,970/-	2,970/-
			Total	2,970/-
			Add GST 18%	535/-
			Grand Total	3,505/-

Note :

1. Payment 100% advance against PI.
2. Work done within 2-3 days after confirmation of order
3. This quotation is valid for 30 days.

For BHOGE ENTERPRISES

Received Ring  
+ calibrated  
R. Bhoge  
16-7-2021

AK  
Mr. do the needful  
ⓐ

Office : "Avantika", B/H Pokar Colony, Gayatri Nagar, Dindori Road, Nashik - 422004

E-mail – [rakesh.bhoge@rediffmail.com](mailto:rakesh.bhoge@rediffmail.com) , [bhogeenterprises@gmail.com](mailto:bhogeenterprises@gmail.com)

Phone No. +91 253 2530820, Mob.: +91 9890815240



# Bhoge Enterprises

Avantika, Behind Pokar Colony, Gayatri Nagar, Dindori Road, Nashik - 422004

GSTIN: 27ANHPB6251G1Z7

Mobile: 9890815240

## TAX INVOICE

ORIGINAL FOR RECIPIENT

Invoice Number

BE-TI- 20/ 87

Invoice Date

21/06/2021

### BILL TO

R.H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES & RESEARCH, NASHIK

College Road, Nashik

### SHIP TO

R.H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES & RESEARCH, NASHIK

College Road, Nashik

S.No.	ITEMS	QTY.	RATE	TAX	AMOUNT
1	Proving ring Calibration CBR machine 10KN proving calibration	1.0 PCS	2970	534.6 (18.0%)	3504.6

### TOTAL

1

₹534.6

₹3504.6

### BANK DETAILS


Name: Bhoge Enterprises  
IFSC Code: HDFC0009255  
Account No: 50200053104834  
Bank & Branch Name: HDFC Bank, MHASRUL

TAXABLE AMOUNT	₹2970
SGST@9	₹267.3
CGST@9	₹267.3
Round Off	₹0.4
<b>TOTAL</b>	<b>₹3505</b>
Received Amount	₹3505
<b>Balance</b>	<b>₹0</b>

### Invoice Amount (in words)

Three Thousand Five Hundred Five Rupees

**BHOGE ENTERPRISES**  
"Avantika", Gayatri Nagar  
B/H. Pokar Colony  
Dindori Road Nashik

  
Authorised Signature for Bhoge Enterprises

**TOTAL**

**1**

**₹534.6**

**₹3504.6**

**BANK DETAILS**

Name: Bhoge Enterprises  
IFSC Code: HDFC0009255  
Account No: 50200053104834  
Bank & Branch Name: HDFC Bank ,MHASRUL

TAXABLE AMOUNT	₹2970
SGST@9	₹267.3
CGST@9	₹267.3
Round Off	₹0.4
<b>TOTAL</b>	<b>₹3505</b>
Received Amount	₹3505
<b>Balance</b>	<b>₹0</b>

**Invoice Amount (in words)**

Three Thousand Five Hundred Five Rupees

**BHOGE ENTERPRISES**  
"Avantika", Gayatri Naga  
B/H. Pokar Colony  
Mandori Road Nashik



Authorised Signature for Bhoge Enterprises

# Gokhale Education Society's



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NAAC Accredited B++ • ISO 9001:2015 Certified College



GES / RHSCOEMSR / 545/2021-22

Date: 22.02.2022

Ref: GES/RHSCOEMSR/CIVIL/2021-22/

## CEMENT CONCRETE PAVER BLOCKS TEST

To,  
The Director  
Aditya Associates Engineers  
and contractors, Nashik

Ref: As per your P.O Letter, Dated: 21.02.22

Subject: - Cement concrete paver block test report

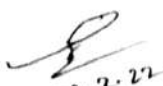
Dear Sir,  
Please find the test results for the concrete paver block samples provided by you. The test was conducted on 22/02/2022. We have received the testing charges of Rs 1800/-, Eighteen hundred only. (Cheque No: 12095580), dated 21-02-2022. We have well equipped labs in material testing and surveying. We look forward to provide testing and consultation to your firm in future.


### Testing of Compressive Strength of Paver Block.

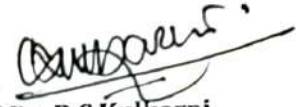
Sr. No	Designation	Color	Crushing Load (kN)	Compressive Strength (N/mm <sup>2</sup> )	% Water Absorption
1.	R-1	Red	965	48.25	-
2.	R-2	Red	1081	54.05	-
3.	R-3	Red	996	49.80	-
4.	G-1	Grey	971.7	48.58	-
5.	G-2	Grey	1000	50.00	-
6.	G-3	Grey	1000	50.00	-

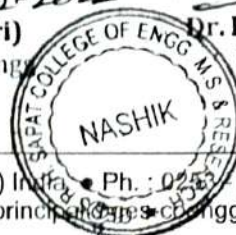
Ref- IS.15658.2006

Note: This report, in full or in part, shall not be published, advertised, used for any purpose without prior permission from Principal of this institute. This report is valid only for the sample tested.

  
22.2.22  
(Mr. P N Pagare)  
Consultancy In-charge

  
23-02-2022  
(Dr. N.D Chaudhari)  
Prof. & Head, Civil Engg

  
Dr. P.C Kulkarni  
Principal





# ADITYA ASSOCIATES

Engineers and Contractors

building trust!

**Girish V. Kangane**

Contact : 9422750077

girishkangane@yahoo.com

Off. : 1, Morya, Sanskriti Hsg. Soc., Ganesh Nagar, Tapovan Link Road, Katta Galli, Dwarka, Nashik - 422011

Date: 21.02.2022

To  
The Principal,  
Gokhale Education Society's  
R. H. Sapat College of Engineering  
Nashik - 422005.

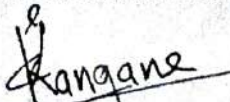
Subject: Purchase Order for Paver Block Testing

Dear Sir,

We have been working on site for Construction of Petrol Pump at Mahiravani, Dist. Nashik, for Hindustan Petroleum Corporation Limited. We need the Paver blocks to be tested for Compression. Samples for the same are given with this letter. We kindly request you to test the samples and provide us the compression test report.

Regards,

ADITYA ASSOCIATES

  
PARTNER

VALID FOR 3 MONTHS FROM THE DATE OF ISSUE

डीपल्ली नगर, नासिक - 422 009  
Deepali Nagar, Nasik - 422 009  
IFS Code : UBIN0550434

**यूनियन बँक**  
of India  
**Union Bank**

दिनांक  
DATE

2 1 0 2 2 0 2 2

1JH93

रा धारक को OR BEARER

PAY

₹ RUPEES *One Thousand Eight Hundred*

₹ 1800/-

अदा करें।

खाता नं.  
A/c No. 504301010032547

चेक नं.  
Cheque No. 12095580

For ADITYA ASSOCIATES

*ADITYA ASSOCIATES*  
Partner

PLEASE SIGN ABOVE THIS LINE

भारत की सभी शाखाओं में समान्य पर  
PAYABLE AT PAR AT ALL OUR BRANCHES IN INDIA

⑈095580⑈ 422026006⑈ 504312⑈ 29

Add : 'Jai Malhar' Bungalow, Opp. Vanaraj Soc.

Ravindra Marg, Dwarka, Nashik-11.

Mobile : -91-9561177456.

Email : sadanandbuildcon@yahoo.com.



**Sadanand**  
Building Planner & Interior Designer

**Buildcon &  
Consultant**

Date :- 12-05-2022

To,

The Head of Department

Civil Engineering Department

R.H. Sapat Collage of Engineering

Nashik

**Subject :-** Soil Testing Report of Extension of Pump House and Security Cabin For HP LPG Plant @Manegaon MIDC Sinnar, Nashik

Dear Sir,

As per Above Subject Mentioned Subject, Kindly Provide Your Services For Soil Testing Report of Extension of Pump House and Security Cabin For HP LPG Plant @Manegaon MIDC Sinnar, Nashik

*Forwarded to Resp Principal Sir,  
RHS  
12-5-2022*

Your Truly,

Er. Rohan B. Ghughe  
Sadanand Buildcon and Consultant



*Rohan B. Ghughe*



Ref. No. GES/Civil/Testing/21-22/

Date: - 13.05.2022

To.

**Sadanand Buildcon & Consultant**

Ravindra Marg, Dwarka.

Nashik - 422011

Maharashtra

**Subject:** - Soil testing Charges**Reference:** - Your Letter ... Dated 12/05/2022

Dear Sir,

With reference to your letter cited above, please find below the charges of soil test conducted:

Sr. No	Name of Test	Rate (Rs.)	Remark
1.	Sieve Analysis	690.00	1 test
2.	Liquid limit & plastic Limit	1170.00	1 test
3.	Compaction Test (Proctor Density)	1860.00	1 test
4.	Field Density by Sand replacement method	1115.00	1 test
5.	C.B.R. Test ( Lab ) With compaction test	6905.00	1 test
Total =		<b>11740.00</b>	

Receipt No		
Advance Amount	11740.00	In word: Rs. Four thousand five hundred fifty only.
Amount	11740.00	In word: Rs. Four thousand five hundred fifty only.
Total (Excluding TADA)	11740.00	In word: Rs. Four thousand five hundred fifty only.

**Mr. Pankaj Pagare**  
Consultancy  
In-charge

**Mr. Nilesh Masne**  
Lab In-charge

**Dr. N.D. Chaudhari**  
Prof & Head of Civil  
Dept.

**Dr. P.C Kulkarni**  
Principal



Gokhale Education Society's  
**R. H. Sapat College of Engineering  
Management Studies & Research**

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Approved by AICTE, New Delhi & DTE (M.S.), Mumbai  
NAAC Accredited B++ • ISO 9001 : 2015 Certified College



GES / RHSCOEMSR /

Ref. No. GES/Civil/Testing/21-22/ **3 A**

Date: - 13.05.2022

To,

**Sadanand Buildcon & Consultant**  
Ravindra Marg, Dwarka,  
Nashik - 422011  
Maharashtra

**Subject: - Soil testing Charges**

**Reference: - Your Letter ... Dated 12/05/2022**


Dear Sir,


With reference to your letter cited above, please find below the charges of soil testing

Sr. No	Name of Test	Rate (Rs.)	Remark
1.	Sieve Analysis	690.00	1 test
2.	Liquid limit & plastic Limit	1170.00	1 test
3.	Compaction Test (Proctor Density)	1860.00	1 test
4.	Field Density by Sand replacement method	1115.00	1 test
5.	C.B.R. Test ( Lab ) With compaction test	6905.00	1 test
Total =		<b>11740.00</b>	

Receipt No	
Advance Amount	<b>11740.00 (Rs. Eleven thousand seven hundred forty only.)</b>
TA DA will be additional	

  
**Mr. Pankaj Pagare**  
Consultancy  
In-charge

  
**Mr. Nilesh Masne**  
Lab In-charge

  
**Dr. N.D. Chaudhari**  
Prof & Head of Civil  
Dept.

  
**Dr. P.C. Kulkarni**  
Principal



**Gokhale Education Society's**  
**R. H. Sapat College of Engineering**  
**Management Studies & Research**



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NAAC Accredited B++ • ISO 9001 : 2015 Certified College

GES / RHSCOEMSR /

Date: - June 17, 2022

To,


**The Director**  
**Rajhans Construction Company,**  
**Nashik**


**Subject: - Concrete Cube testing Charges**

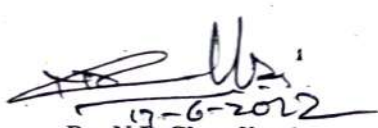
Dear Sir,

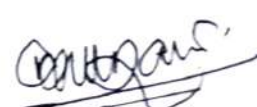
Please find below the charges of concrete cube testing


Sl. No	Name of Test	Specimen Id	Charges in Rupees	Unit	Amount
1	28 Days Compressive Strength	Raft Pour 3	₹ 620.00	Per Set	₹ 620.00
2	7 Days Compressive Strength	Retaining wall C111 to C80	₹ 620.00	Per Set	₹ 620.00
3	28 Days Compressive Strength	Retaining wall C111 to C80	₹ 620.00	Per Set	₹ 620.00
				<b>Total</b>	<b>₹ 1860.00</b>
<b>Rs. Eighteen hundred sixty only</b>					

  
**Mr. Pankaj Pagare**  
Consultancy In charge

  
**Mr. A.A Burkule**  
Tested by

  
**Dr. N.D Chaudhari**  
Head of Department

  
**Dr. P.C Kulkarni**  
Principal

  
Rajhans Construction



**Gokhale Education Society's**  
**R. H. Sapat College of Engineering**  
**Management Studies & Research**

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GES / RHSCOEMSR /  
Ref: GES/RHSCOEMSR/CIVIL/2021-22/

Date: 17<sup>th</sup> June 2022

**Civil Engineering Department**  
Testing and consultancy cell  
**SOIL TESTING REPORT**

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.


Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bungalow, Opp. Vanaraj Soc., Dwarka, Nashik, Maharashtra (422011)


**Sample I- Near Security Cabin**


Sr. No	Test Name	Result	Range	Conclusion	Remarks
1.	Sieve Analysis	$C_u = 6$ $C_c = 0.8$	$C_u > 6$ Sand type $C_c$ 1-3 Well graded	Gap Graded Sandy Soil	As per IS: 2720-1 (1983)
2.	Liquid limit of Soil	35.00 %	L.L = 0-35 Low compressibility 35-50 Medium compressibility > 50 high compressibility	Medium compressibility	As per IS: 2720 (Part 5) 1985
3.	Plasticity index of soil	9.62	< 10 (sand) 10-15 (Silt) 15-100 (clay)	Non- Plastic Sand,	As per IS: 2720 (Part-5) 1985.
4.	Bulk density and dry Density of soil	1.1 g/cc & 1.46 g/cc	1.1 g/cc to 1.6 g/cc	Dry Density is <b>Good</b>	Sand Replacement Method
5.	OMC & MDD of Soil	18.5 % & 1.54 g/cc	1.1 g/cc to 1.6 g/cc	As sand is mixed with gravel, MDD value may be higher than the stated value	Standard Proctor Test IS 2720-8 (1983)
6.	CBR Test	5.89	Clay- 2% Poorly graded sand - 7% Well graded sand -10% Well graded sandy gravel- 15%	Gap graded soil with gravel	IRC-37 Spec

Note 1: The tested soil sample is showing gap graded sandy type soil, so it is recommended to replace the soil, if possible, and the foundation should place on hard strata.

Note 2: This report, in full or in part, shall not be published. This report is based on the sample provided by the client.

  
Mr. Pankaj Pagare  
Consultancy  
In-charge

  
Mr. Nilesh Masne  
Lab In-charge

  
Dr. N.D. Chaudhari  
Prof & Head of Civil Dept.

  
Dr. P.C Kulkarni  
Principal



GES / RHSCOEMSR / EMSR / CIVIL / 2021-22/

Date: 17<sup>th</sup> June 2022

**Civil Engineering Department**  
Testing and consultancy cell  
**SOIL TESTING REPORT**

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.

Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bunglow, Opp. Vanaraj Soc., Dwarka, Nashik, Maharashtra (422011)

**Sample 2- Near filling Plant**

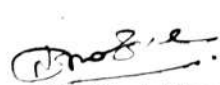
Sr. No	Test Name	Result	Range	Conclusion	Remarks
1.	Sieve Analysis	$C_u = 4.00$ $C_c = 1.0$	$C_u > 4$ Gravel type $C_c$ 1-3 Well graded	Well Graded Gravel Type Soil	As per IS: 2720-1 (1983)
2.	Liquid limit of Soil	44.00 %	L.L = 0-35 Low compressibility 35-50 Medium compressibility > 50 high compressibility	Medium compressibility	As per IS: 2720 (Part 5) 1985
3	Plasticity index of soil	4.21	< 10 (sand) 10-15 (Silt) 15-100 (clay)	Non- Plastic Sand,	As per IS: 2720 (Part-5) 1985.
4.	Bulk density and dry Density of soil	1.29 g/cc & 1.52 g/cc	1.1 g/cc to 1.6 g/cc	Dry Density is low	Sand Replacement Method
5.	OMC & MDD of Soil	22.5 % & 1.6 g/cc	1.1 g/cc to 1.6 g/cc	As sand is mixed with gravel, MDD value is 1.6g/cc	Standard Proctor Test IS 2720-8 (1983)
6.	CBR Test	5.46%	Clay- 2% Poorly graded sand - 7% Well graded sand -10% Well graded sandy gravel- 15%	Gap graded soil with gravel	IRC-37 Spec.

**Note 1:** The tested soil sample showing mix properties, so it is recommended to replace the soil, if possible and the foundation should place on hard strata.


**Note 2:** This report, in full or in part, shall not be published. This report is based on the sample provided by client.

  
Mr. Pankaj Pagare

Consultancy  
In-charge

  
Mr. Nilesh Masne

Lab In-charge

  
Dr. N.D. Chaudhari

Prof & Head of Civil Dept.

  
Dr. P.C Kulkarni

Principal

Date – 13-03-2021

To

**The Principal**

**GES R.H. Sapat COEMS&R,**

**Nashik-422005**

**Subject-Regarding execution of leveling work and Structural design work at Village Shirasgaon , Tal Trimbakeshwar, Dist- Nashik.**

Dear Sir,

As per above mentioned subject, kindly provide your services for leveling work of road and Structural design of proposed culvert thereafter at Shirsagaon Shivar, Trimbak Jawahar Road, Trimbakeshwar as per discussed.

  
**L. T. BUILDCON**  
Nashik Yours Truly

VD	RL		611.25
	600	bm well	611.25
6.3	603.45		611.25
5.61	604.14		611.25
5.76	603.99		611.25
0.93	608.82		611.25
0.61	609.14		611.25
11.32	598.43		611.25
11.32	598.43		611.25
10.41	599.34		611.25
11.23	598.52		611.25
8.37	601.38		611.25
9.13	600.62		611.25
9.41	600.34		611.25
10.7	599.05		611.25
9.55	600.2		611.25
<b>10.08</b>	598.67		611.25
9.736	600.014		611.25
0.998	608.752		611.25
2.17	607.58		611.25
0.95	610.7		611.25
0.81	610.56		611.25
1.09	610.84		611.25
1.35	611.1		611.25
1.25	611		611.25
1.39	611.14		611.25
1.68	611.43		611.25
2.15	611.9		611.25
2.6	612.35		611.25
4.06	613.81		611.25
4.18	613.93		611.25
4.32	614.07		611.25
4.46	614.21		611.25
6.084	615.834		611.25

# Shirsagaon Leveling Work







पंजाब नैशनाल बैंक  
punjab national bank

शरणपुर रोड, नासिक (महाराष्ट्र)  
Sharanpur Road, NASIK (Mah) - 422005  
RTGS/NEFT IFS Code : PUNB0376200

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या धारक को OR BEARER

PAY R. H. Sapad college of Engineering

रुपये RUPEES Fifteen Thousand only.

अदा करें ₹ 15,000/-

खाता सं. A/C. No. 3762002100019953

चालू खाता  
CURRENT A/C

3762002100019953

RAHUL V THORAT  
Please sign above

HJE

⑈ 184 295 ⑈ 4 2 20 24.004 ⑈

29



Gokhale Education Society's  
R. H. Sapat College of Engineering, Management Studies & Research,  
Nashik - 422 005  
Department of Civil Engineering



**Consultation for construction of road and bridge (survey & design) at Shirasgaon near Trambkeshwar**  
**Client: L.T. Buildcon Nashik**

**Execution levels for road**

**Zero chainage at existing house as shown in drawing**

Chainage (Feet)	Excavation to be done from existing ground level (feet's)	Excavation to be done from existing ground level (m)	Filling to be done from existing ground level (feet,s)	Filling to be done from existing ground level (m)
0	0	0	---	----
100	1.5 ft	0.46 m	---	----
200	6.0 ft	1.84 m	---	----
300	6.56 ft (6'6.5")	2	---	----
400	9.91 ft (9'11")	3.02	---	----
500	7.19 ft (7' 2")	2.19	---	----
535.52	5.51 ft (5' 6")	1.68	---	----
548.02	0	0	0	0
600	---	----	14.33 (14' 4")	4.37
649.34			11.77 (11' 9")	3.59
700	---	----	5.22 (5' 2.5")	1.59
712.29	---	----	0	0

*Note: Please contact for query if any on*

9881097630 Dr. N. D. Chaudhari or 9422261031 Mr. Pankaj Pagare

**Dr. N. D. Chaudhari**  
Professor & Head

**Dr. P. C. Kulkarni**  
Principal



building trust!

# ADITYA ASSOCIATES

Engineers and Contractors

**Girish V. Kangane**  
Contact : 9422750077  
girishkangane@yahoo.com

Off. : 1, Morya, Sanskriti Hsg. Soc., Ganesh Nagar, Tapovan Link Road, Kathe Galli, Dwarka, Nashik - 422011.

Date: 24.03.2021

To  
The Principal,  
Gokhale Education Society's  
R. H. Sapat College of Engineering  
Nashik - 422005.

Subject: Purchase Order for Paver Block Testing

Dear Sir,

We have been working on site for Construction of Petrol Pump at Orwad, Dist. Vapi, Gujrat for Hindustan Petroleum Corporation Limited. We need the Paver blocks to be tested for Compression. Samples for the same are given with this letter. We kindly request you to test the samples and provide us the compression test report.

Regards,

ADITYA ASSOCIATES

  
PARTNER



**बैंक ऑफ बड़ौदा**  
**Bank of Baroda**

गोल्फ क्लब, नाशिक, नाशिक ४२२००२  
GOLF CLUB, NASHIK, Nasik - 422002  
RTGS / NEFT IFSC CODE: BARB0GOLFCL

जारी की गई तारीख से तीन माह के लिए वैध/ VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

CBS

24032021

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Rupees रुपये

Twelve Hundred Only.

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अदा करें

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1200/—

खा. सं.  
A/c No.

17660200001081

CA/2012/SE

भारत की सभी शाखाओं में सममूल्यपर देय GLB  
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*Aditya Associates*

ADITYA ASSOCIATES

Please sign above

⑈000003⑈ 422012003⑈ 201081⑈ 29



Gokhale Education Society's  
**R. H. Sapat College of Engineering  
Management Studies & Research**



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Recognized by Govt. of Maharashtra  
Approved by AICTE, New Delhi & DTE (M.S.), Mumbai  
NAAC Accredited B++ • ISO 9001 : 2015 Certified College

GES / RHSCOEMSR / CIVIL / 115

Ref: GES/RHSCOEMSR/CIVIL/2020-21/

Date: 26-03-2021

**CEMENT CONCRETE PAVER BLOCKS TEST**

To,  
The Director Aditya Associates  
Engineers and contractors,  
Nashik

Ref: As per your P.O Letter, Dated: 24/03/2021

Subject: - Cement concrete paver block test report

Dear Sir,


Please find the test results for the concrete paver block samples provided by you. The test was conducted on 25/03/2021. We have received the testing charges of Rs 1200/-, Twelve hundred only, (Cheque No: 000003, dated 24-03-2021). We have well equipped labs in material testing and surveying. We look forward to provide testing and consultation to your firm in future.

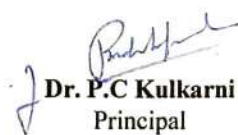
**Testing of Compressive Strength of Paver Block.**

Sr. No.	Compressive Strength (N/mm <sup>2</sup> )	% Water Absorption
1.	33.45	-
2.	43.60	-
3.	40.5	-

Ref- IS.15658.2006

  
(Mr. P N Pagare)  
Structural Engineer

  
(Dr. N.D Chaudhari)  
Prof. & Head, Civil Engg

  
Dr. P.C Kulkarni  
Principal

Note: Above test results are for samples provided by you

S.No	Designation	Ultimate load in (kN)	Strength in $N/mm^2$ (MPa)
1.	S-1	669 kN	33.45 <del>MPa</del>
2.	S-2	872 kN	43.6
3.	S-3	810 kN	40.5

$$Avg = 39.18 \text{ N/mm}^2$$



# ADITYA ASSOCIATES

Engineers and Contractors

**Girish V. Kangane**  
Contact : 9422750077  
girishkangane@yahoo.com

Off. : 1, Morya, Sanskriti Hsg. Soc., Ganesh Nagar, Tapovan Link Road, Kathe Galli, Dwarka, Nashik -422011.

Date: 30.03.2021

To  
The Principal,  
Gokhale Education Society's  
R. H. Sapat College of Engineering  
Nashik – 422005.

Subject: Purchase Order for Paver Block Testing

Dear Sir,

We have been working on site for Construction of Petrol Pump at Orwad, Dist. Vapi, Gujrat for Hindustan Petroleum Corporation Limited. We need the Paver blocks to be tested for Compression. Samples for the same are given with this letter. We kindly request you to test the samples and provide us the compression test report.

Regards,

ADITYA ASSOCIATES

PARTNER



**Gokhale Education Society's**  
**R. H. Sapat College of Engineering**  
**Management Studies & Research**



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Approved by AICTE, New Delhi & DTE (M.S.), Mumbai  
NAAC Accredited B++ • ISO 9001 : 2015 Certified College

GES / RHSCOEMSR / Civil / 116

Date: 30-03-2021

**CEMENT CONCRETE PAVER BLOCKS TEST**

To,  
The Director Aditya Associates  
Engineers and contractors,  
Nashik

**Ref: As per your P.O Letter, Dated: 30/03/2021**

**Subject: - Cement concrete paver block test report**

Dear Sir,


Please find the test results for the concrete paver block samples provided by you. The test was conducted on 30/03/2021. We have received the testing charges of Rs. 1600/-, Sixteen hundred only, (Cheque No: 000004, dated 30-03-2021. We have well equipped labs in material testing and surveying. We look forward to provide testing and consultation to your firm in future.


**Testing of Compressive Strength of Paver Block.**

Sr. No	Designation	Color	Compressive Strength (N/mm <sup>2</sup> )	% Water Absorption
1.	S-1	Grey	44.8	-
2.	S-2	Grey	49.8	-
3.	S-3	Red	37.2	-
4.	S-4	Red	36.7	-

**Ref- IS.15658.2006**

**Note:** Above test results are for samples provided by you

  
(Mr. P N Pagare)  
Structural Engineer

  
(Dr. N.D Chaudhari)  
Prof. & Head, Civil Engg

  
Dr. P.C Kulkarni  
Principal





**GOKHALE EDUCATION SOCIETY'S**  
**R.H.Sapat College of Engineering**  
**GES's College of Engineering**  
GES's College of Engineering 2020-2021

Student copy

<b>Name :</b> Aditya Associates <b>A/C No. :</b> <b>Date :</b> 29-May-2021 <b>Receipt No. :</b> 39 <b>Bank Details :</b> Cheque No.: Cheq.No.03,04	<b>Class :</b> Other Receipts Receivable <b>Roll No. :</b> <b>Division :</b> <b>Fee Category :</b>
--	---

**Fee Details**

Consultancy Fee	2,800.00		
-----------------	----------	--	--

**Narration :**

**Fee In Words :INR Two Thousand Eight Hundred Only**

**O/S: 2,800.00 Cr**

**INSTRUCTIONS :** (1) Please preserve this receipt for refund of deposits and fees (2) Fees once paid will not be refunded on account of cancellation of admission. (3) Receipt must be produced when demanded by the office. (4) Please check the amount entered in the receipt and amount actually paid before leaving the counter. No complaints will be entertained afterwards. (5) Transfer Certificate will not be issued unless all the dues of fees are paid.

**A/C Clerk**

**Principal**



**बैंक ऑफ़ बड़ोदा**  
**Bank of Baroda**

गोल्फ क्लब, नाशिक नाशिक ४२२००२  
GOLF CLUB, NASHIK, Nasik - 422002  
RTGS / NEFT IFSC CODE: BARB0GOLFCL

जारी की गई तारीख से तीन माह के लिए वैध/ VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

CBS

30032021

चालू खाता / CURRENT ACCOUNT

D D M M Y Y Y Y

Pay R. H. Sapad College of Engineering

Or Bearer

Rupees रुपये Sixteen Hundred Only

या धारक को

अदा करें

₹ 16000

खा. सं.  
A/c No.

17660200001081

CA/2012/SE

भारत की सभी शाखाओं में सममूल्यपर देय  
Payable at par at all branches in India

GLB

*Kangane*

ADITYA ASSOCIATES

Please sign above

⑈000004⑈ 4 2 2 0 1 2 0 0 3 ⑈ 2 0 1 0 8 1 ⑈ 2 9

Add : 'Jai Malhar' Bungalow, Opp. Vanaraj Soc.  
Ravindra Marg, Dwarka, Nashik- 11.  
Mobile : +91-9561177456.  
Email : sadanandbuildcon@yahoo.com.



**Sadanand**  
Building Planner & Interior Designer

**Buildcon &  
Consultant**

Date - 02-06-2021

To,  
The Principal,  
R. H. SAPAT College of Engg,  
College Road.  
Nashik.

Kind attention to me - Mr. Pankaj Pagare Sir


Respected Sir,

Sending you requirement for soil testing for foundation at our new site at Nashik LPG plant, Malegaon MIDC, Sinnar, Nashik. So please visit the said site and suggest us testing that can be done and also provide quotation for the same.

Sadanand Buildcon And Consultant

Eng Rohan B Ghuge.

**SADANAND BUILDCON & CONSULTANT**

  
Proprietor



Ref. No.GES/Civil/Testing/20-21/

Date: - 02.06.2021

To,

**Sadanand Buildcon & Consultant**

Ravindra Marg, Dwarka,

Nashik - 422011

Maharashtra

**Subject:** - Testing type and rates for Soil

**Reference:** - Your Letter ... Dated 02/06/2021

Dear Sir,

With reference to your letter cited above, please find below the soil test and their rates:

Sr. No	Name of Test	Rate (Rs.)	Remark
1.	Sieve Analysis	650.00	1 test
2.	Liquid limit & plastic Limit	1100.00	1 test
3.	Compaction Test (Proctor Density).	1750.00	1 test
4.	Field Density by Sand replacement method.	1050.00	1 test
5.	Direct Shear Test	7150.00	1 test

**Note:** This report in full or part shall not be published, advertised, used for any legal action unless prior permission has been secured from Principal. This report is valid only for the sample tested. Service Charges will be levied as per Govt. rules; Transportation charges for the tests shall be paid by the party.

<b>Mr. Pankaj Pagare</b>	<b>Mr. Nilesh Masne</b>	<b>Dr. N.D. Chaudhari</b>	<b>Dr. P.C Kulkarni</b>
Consultancy In-charge	Lab In-charge	Prof & Head of Civil Dept.	Principal



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R. H. Sapat College of Engineering  
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GES/RHSCOEMSR/23-2021-22

Date: 14.06.2021

**Civil Engineering Department  
Testing and consultancy cell  
SOIL TESTING REPORT**

Name of Work: - Geo technical investigation at HPCL LPG Plant site.

Location: - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik

Name of the client: - Sadanand Buildcon & Consultant, Jai Malhar Bunglow, Opp. Vanaraj Soc., Dwarka Nashik, Maharashtra (422011)

Sr. No	Test Name	Result	Range	Conclusion	Remarks
1.	Sieve Analysis	$C_u = 4.67$ $C_c = 1.0$	$C_u > 4$ Gravel type $C_c$ 1-3 Well graded	Well Graded Gravel Type Soil	As per IS: 2720-1 (1983)
2.	Liquid limit of Soil	39.54 %	L.L = 0-35 Low compressibility 35-50 Medium compressibility > 50 high compressibility	Medium compressibility	As per IS: 2720 (Part 5) 1985
3	Plasticity index of soil	10.54	< 10 (sand) 10-15 (Silt) 15-100 (clay)	Silt, Plastic limit = 29 % PI = 10.54, Medium plasticity	As per IS: 2720 (Part-5) 1985.
4.	Bulk density and dry Density of soil	1.49 g/cc & 1.25 g/cc	1.1 g/cc to 1.6 g/cc	Dry Density is low	Sand Replacement Method
5.	OMC & MDD of Soil	13 % & 1.42 g/cc	1.1 g/cc to 1.6 g/cc	Optimum moisture content of soil is low which may results in low density of soil.	Standard Proctor Test IS 2720-8 (1983)

Note: 1. Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work/construction. Back filling material should be rubble soling and well compacted

Note: 2. This report, in full or in part, shall not be published. This report is based on the sample provided by client.

15.6.21  
Mr. Pankaj Pagare

Consultancy  
In-charge

14.06.21  
Mr. Nilesh Masne

Lab In-charge

15-06-2021  
Dr. N.D. Chaudhari

Prof & Head of Civil Dept.

15-06-2021  
Dr. P.C Kulkarni

Principal  
**PRINCIPAL**

G.K.S.'s R. H. Sapat College of Engg.  
Mgt. Studies & Research  
Prin. T. A. Kulkarni Vidyanagar, Nashik &



Gokhale Education Society's  
**R. H. Sapat College of Engineering  
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GES / RHSCOEMSR / 23  
B

12021-22

Date: 24.06.2021

**Civil Engineering Department**  
Testing and consultancy cell

**CBR Soil Testing Report**

**Name of Work:** - Geo technical investigation at HPCL LPG Plant site.


**Location:** - HPCL LPG Plant, Malegaon MIDC, Sinnar, Nashik.


**Name of the client:** - Sadanand Buildcon & Consultant, Jai Malhar Bunglow , Opp.Vanaraj Soc., Dwarka ,  
Nashik, Maharashtra (422011)

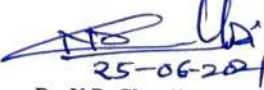
Sr. No.	Test Name	Result	Range	Conclusion	Remarks
1.	California Bearing Ratio	CBR=10.92 %	Clay- 2% Sand from - 7% (poorly graded) to 10% (well graded), well graded sandy gravel - 15% Clay sand 5-20, silty gravel 20-60%, gravel from 30-60% poorly graded to 40-80% if well graded.	Well graded sandy gravel	As per IS: 2720 part 16-1987


**Note:** 1. Fill up material of 10cm observed during the site investigation should be removed prior to the start of pavement work/construction. Back filling material should be rubble soling and well compacted

**Note:** 2. This report, in full or in part, shall not be published. This report is based on the sample provided by client.

  
Mr. Pankaj Pagare  
Consultancy Cell  
In-charge

  
Mrs. Shilpa M. Kale  
Test Conducted By

  
Dr. N.D. Chaudhari  
Prof & Head of Civil  
Dept.

  
Dr. P.C. Kulkarni  
Principal





**Gokhale Education Society's**  
**R. H. Sapat College of Engineering**  
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Approved by AICTE, New Delhi & DTE (M.S.), Mumbai  
NAAC Accredited B++ • ISO 9001 : 2015 Certified College

GES / RHSCOEMSR / 23 - 2021-22 a


Date: 11.06.2021


To  
The Director  
Sadanand Buildcon & Consultant,  
Jai Malhar Bunglow ,  
Opp.Vanaraj Soc., Dwarka ,  
Nashik, Maharashtra (422011)


Sub: List of apparatus used

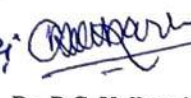
**LIST OF APPARATUS USED (GEOTECH- LAB):**

Sr. No.	Test Name	Apparatus Used
1.	Sieve Analysis	Sieve Set 75micron to 4.75 mm
2.	Liquid limit of Soil	Casagrande Apparatus
3	Plasticity index of soil	
4.	Bulk density and dry Density of soil	Sand Replacement Method
5.	OMC & MDD of Soil	Standard Proctor Test Mould

  
11.6.21  
Mr. Pankaj Pagare  
Consultancy Cell  
In-charge

  
11.6.21  
Mr. Nilesh Masne  
Lab In-charge

  
Dr. N.D. Chaudhari  
Prof & Head of Civil  
Dept.

  
Dr. P.C Kulkarni  
Principal



**PRINCIPAL**  
R. H. Sapat College of Engg.  
Mgt. Studies & Research  
Prin. T. A. Kulkarni Vidy Nagar, Nashik-6.



Mob. No. +91 9890815240  
7588702642

# **BHOGE ENTERPRISES**

Surveying, Scientific & Mathematical  
Instrument Repairing & Calibration.

Ref No. :BE 035-2021

Date : 18.06.2021

## **CALIBRATION REPORT OF PROVING RING**

1)	Name of Verifying Authority	Bhoge Enterprises ,MERI Nashik				
2)	Manufacture of Proving Ring	HEICO				
3)	Location of Proving Rin	R H Sapat College of Engineering, Nashik				
4)	Capacity of Proving Ring	10 KN				
5)	Identification mark	PR 0759				
6)	Date of calibration of Proving Ring	18/06/2021				
7)	Next due date of calibration	17/06/2022				
Sr No	Applied Dead Load in KN	Observed deflection on proving Ring			Average Deflection on Proving Ring	Remark
1	0	0	0	0	0	
2	1	38	39	38	38.3	
3	2	122	123	123	122.7	
4	3	213	214	214	213.7	
5	4	301	302	301	301.3	
6	5	388	389	389	388.7	
7	6	477	478	477	477.3	
8	7	565	565	566	565.3	
9	8	653	654	655	654.0	
10	9	742	741	742	741.7	
11	10	830	829	830	829.7	
Summary from Graph		: A plot of dead load V/s average deflection shows a straight line graph				

### **BHOGE ENTERPRISES**

'Avantika", Gayatri Naga  
B/H. Pokar Colony  
Dindori Road Nashik

For BHOGE ENTERPRISES

Office : "Avantika", B/h Pokar Colony, Gayatri Nagar, Dindory Road, Nashik - 422004

E-mail – [chhayatradersnsk@gmail.com](mailto:chhayatradersnsk@gmail.com) , [rakesh.bhoge@rediffmail.com](mailto:rakesh.bhoge@rediffmail.com)

Phone No. +91 253 6630181, Mob.: +91 9890815240





## Bhoge Enterprises

Avantika, Behind Pokar Colony, Gayatri Nagar,  
Dindori Road, Nashik - 422004

**GSTIN:** 27ANHPB6251G1Z7

**Mobile:** 9890815240

**TAX INVOICE**

ORIGINAL FOR RECIPIENT

**Invoice Number**

BE-TI- 20/ 87

**Invoice Date**

21/06/2021

### BILL TO

**R.H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES &  
RESEARCH, NASHIK**  
College Road, Nashik

### SHIP TO

**R.H. SAPAT COLLEGE OF ENGINEERING  
MANAGEMENT STUDIES & RESEARCH, NASHIK**  
College Road, Nashik

S.No.	ITEMS	QTY.	RATE	TAX	AMOUNT
1	Proving ring Calibration CBR machine 10KN proving claibration	1.0 PCS	2970	534.6 (18.0%)	3504.6

<b>TOTAL</b>	<b>1</b>	<b>₹534.6</b>	<b>₹3504.6</b>
--------------	----------	---------------	----------------

### BANK DETAILS

Name: Bhoge Enterprises  
IFSC Code: HDFC0009255  
Account No: 50200053104834  
Bank & Branch Name: HDFC Bank ,MHASRUL

TAXABLE AMOUNT	₹2970
SGST@9	₹267.3
CGST@9	₹267.3
Round Off	₹0.4
<b>TOTAL</b>	<b>₹3505</b>
Received Amount	₹3505
<b>Balance</b>	<b>₹0</b>

**Invoice Amount (in words)**

Three Thousand Five Hundred Five Rupees

**BHOGE ENTERPRISES**  
"Avantika", Gayatri Nagar  
B/H. Pokar Colony  
Dindori Road Nashik

  
Authorised Signature for Bhoge Enterprises



## Bhoge Enterprises

Avantika, Behind Pokar Colony, Gayatri Nagar,  
Dindori Road, Nashik - 422004

**GSTIN:** 27ANHPB6251G1Z7

**Mobile:** 9890815240

**TAX INVOICE**

ORIGINAL FOR RECIPIENT

**Invoice Number**

BE-TI- 20/ 87

**Invoice Date**

21/06/2021

### BILL TO

**R.H. SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES &  
RESEARCH, NASHIK**

College Road, Nashik

### SHIP TO

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MANAGEMENT STUDIES & RESEARCH, NASHIK**

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<b>TOTAL</b>	<b>₹3505</b>

Received Amount	₹3505
<b>Balance</b>	<b>₹0</b>

**Invoice Amount (in words)**

Three Thousand Five Hundred Five Rupees

## BHOGE ENTERPRISES

"Avantika", Gayatri Nagar  
B/H. Pokar Colony  
Dindori Road Nashik

Authorised Signature for Bhoge Enterprises



बैंक ऑफ महाराष्ट्र  
Bank of Maharashtra

01435 ASHOKA MARG NASHIK  
BANK OF MAHARASHTRA  
ASHOKA MARG  
NASIK 422011  
IFSCCode : MAHB0001435

08062021  
D D M M Y Y Y Y

Pay अदा करें GES's R.M. Sapat College of Engineering. Or Bearer  
या धारक को

Rupees रुपये Eleven Thousand Fifty only

₹ 11050/-

A/c No.  
खाता नं. 60214075308

SADANAND BUILDCON AND CONSULTANT

Authorized Signatory(ies)

हस्ताक्षर/ Signature(s)  
Please sign above

⑈ 137154 ⑈ 4220140181 ⑈ 002756 ⑈ 11

Add : 'Jai Malhar' Bungalow, Opp. Vanaraj Soc.  
Ravindra Marg, Dwarka, Nashik- 11.  
Mobile : +91-9561177456.  
Email : sadanandbuildcon@yahoo.com.



**Sadanand** Buildcon & Consultant  
Building Planner & Interior Designer

Date - 20-09-2019.

To,  
The Head of Department,  
Civil Engineering Department,  
R.H Sapat College Of Engineering,  
Nashik.

Subject - Regarding execution of NDT test of concrete at our site in thane.

Dear Sir,

As per above mentioned subject, kindly provide your services for Non Destructive Testing of Concrete Foundation of size 6mx4mx1m at our site HPCL Petrol pump Broadway Auto, Ghodbunder road, Thane, Mumbai as per discussed .



SADANAND BUILDCON & CONSULTANT

  
Proprietor

Your's Truly.  
Er. Rohan B Ghuge.

Sadanand Buildcon and Consultant.



GES / RHSCOEMSR / 30 / 12019-20

Ref: GES/RHSCOEMSR/CIVIL/2019-20/

## TESTING & CONSULTANCY REPORT

Date: 26.09.2019

To,  
Sadanand Buildcon & Consultant  
Jai Malhar Bunglow, Opp. Vanaraj Soc., Dwarka,  
Nashik, Maharashtra (422011)

Ref: As per your request letter dated : 20/09/2019

Subject :- Non Destructive Testing (NDT) of Concrete Foundation at HPCL Petrol Pump, Thane.

Site Location : HPCL Petrol Pump, Broadway Auto , Ghodbunder Road , Thane , Mumbai.

Test Conducted On : 21/09/2019

Test Conducted By : Mr. Pankaj Pagare

Location /Surface	Rebound Number	Compressive Strength in (Mpa)	Location /Surface	Rebound Number	Compressive Strength in (Mpa)
T1	24.00	22.00	T14	28.00	16.50
T2	32.00	22.00	T15	22.00	10.00
T3	27.00	15.50	T16	27.00	15.50
T4	28.00	16.50	T17	23.00	11.20
T5	28.00	16.50	T18	20.00	10.10
T6	34.00	23.70	T19	21.00	10.00
T7	35.00	24.80	T20	34.00	23.70
T8	20.00	10.10	T21	19.00	12.10
T9	20.00	12.10	T22	20.00	10.10
T10	24.00	12.20	T23	22.00	10.00
T11	35.00	24.80	T24	20.00	10.10
T12	24.00	12.20	T25	20.00	10.10
T13	30.00	18.60	T26	19.00	10.50
	Average	17.77		Average	12.30
Avg. Comp. Strength (MPa)	15.03				
Receipt No					
Advance Amount	Rs. 0.00	In word: Nil			
Amount@300 per point	Rs. 7800.00	In word: Rupees Seven Thousand Eight Hundred only			
Total (Excluding TA & DA)	Rs. 7800.00	In word: Rupees Seven Thousand Eight Hundred only			
Reference:	I.S 13311 Part 2- 1992, NDT of Concrete Method of Tests – Rebound Hammer.				
Note:	This report, in full or in part, shall not be published, advertised, used for any legal action unless prior permission has been secured from Principal of this institute. This report is valid only for the sample tested.				

Mr. Pankaj Pagare

Asst. Prof. Dept. of Civil Engg  
Dept. of Civil Engineering

Dr. N.D Chaudhari

Professor & Head  
Dept. of Civil Engineering

Dr. P.C Kulkarni

Principal

GERHSCOEMS & R



GES/RHSCOEMSR/ 301-A / 2019-20

Ref: GES/RHSCOEMSR/CIVIL/2019-20/

Date: 26.09.2019

**CEMENT CONCRETE CORE TEST****Name of Work:** - Non Destructive Testing (NDT) of Concrete Foundation at HPCL Petrol Pump, Thane.**Name of Client:** - Sadanand Buildcon & Consultant, Jai Malhar Bunglow, Opp. Vanaraj Soc., Dwarka, Nashik, Maharashtra (422011)**Location:** - HPCL Petrol Pump, Broadway Auto, Ghodbunder Road, Thane, Mumbai.

Ref- IS - 516 - 1959

Sr. No.	Particulars	Details
1	Identification Mark	TC1
2	Concrete Grade	Not Known
3	Date of Casting	Not Known
4	Date of Testing	21/09/2019
5	Height of Specimen	330 mm
6	Diameter of Specimen	190 mm
7	Cross sectional Area of Specimen- mm <sup>2</sup>	28352 mm <sup>2</sup>
8	Weight of Specimen in Kg	23.685 Kg
10	Maximum Load in Kilo Newton	366
11	Compressive Strength of Core in N/mm <sup>2</sup>	12.91
12	Correction factor ( $f = 0.11n + 0.78$ ) $n = \text{Ratio of Height to Diameter} = (330/190) = 1.73$	$f = 0.970$ Corrected Core Strength= $0.970 \times 12.91 = 12.522 \text{ N/mm}^2$
13	Corresponding Cube Strength $1.25 \times \text{Corrected Core Strength}$	<b>15.66 N/mm<sup>2</sup></b>
14	Acceptability Criteria	28 days corrected core strength shall not be less than 100 % of 28 Days cube Strength.
<b>Receipt No.</b>		
<b>Advance Amount</b>	<b>Rs. 0.00</b>	<b>In word: Nil</b>
<b>Amount</b>	<b>Rs. 600.00</b>	<b>In word: Rupees Six Hundred only</b>
<b>Total (Excluding TADA)</b>	<b>Rs. 600.00</b>	<b>In word: Rupees Six Hundred only</b>

Note: 1. Inner portion of the tested core sample shows that the concrete has deteriorated to large extent while top surface is in moderate condition. (Refer attached Picture)

Note: 2. This report, in full or in part, shall not be published, advertised, used for any legal action unless prior permission has been secured from Principal of this institute. This report is valid only for the sample tested.



Mr. Pankaj Pagare

Asst. Professor

Dept. of Civil Engineering



Dr. N.D Chaudhari

Professor &amp; Head

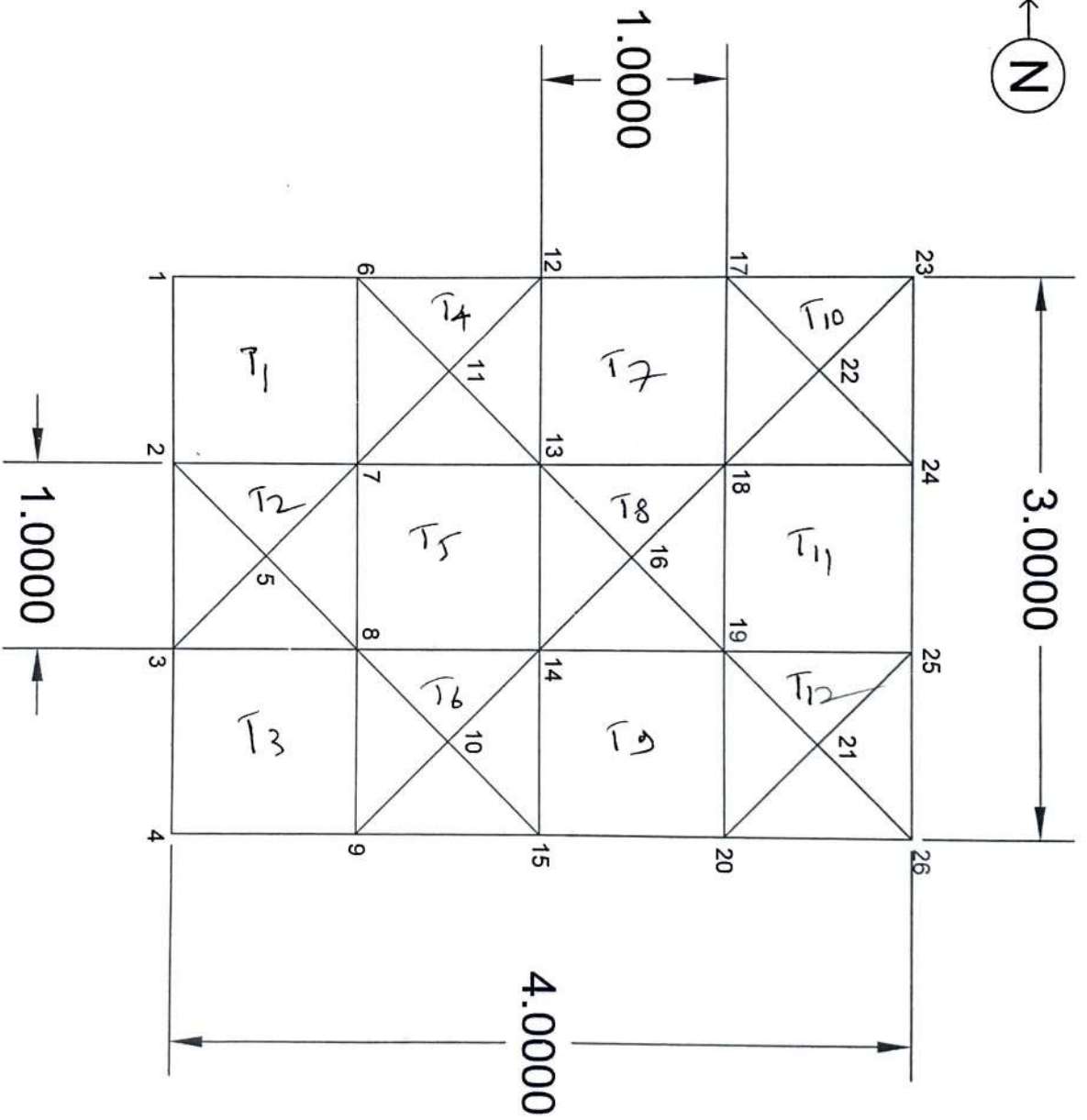
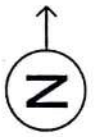
Dept. of Civil Engineering

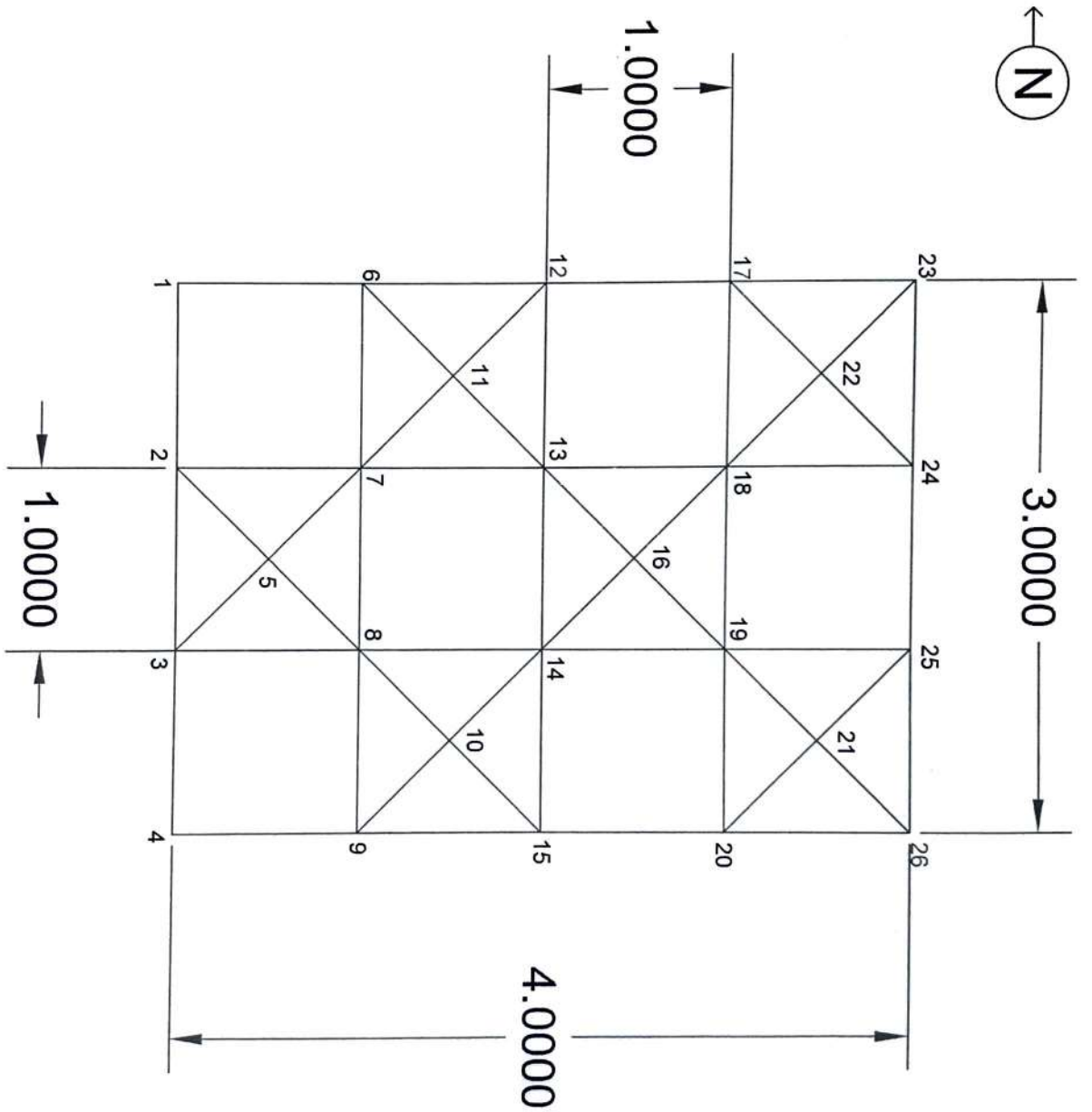


Dr. P.C Kulkarni

Principal

GERHSCOEMSR







Point No.	Top Reading	Bottom Reading
1	24	16
2	32	27
3	27	19
4	28	20
5	28	20
6	34	30
7	35	33
8	18	-10
9	20	11
10	24	14
11	35	32
12	24	15
13	30	24
14	28	20
15	22	13
16	27	19
17	23	14
18	20	11
19	21	11
20	34	30
21	19	-10
22	20	-10
23	-	-
24	-	-
25	16	-10
26	19	-10

# Rebound Hammer Test

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Photo 1 Grid Preparation



Photo 2. Rebound Hammer Test

# Concrete Core Cutter Test

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Photo 1 Core Testing Arrangement



Photo 2 Core log

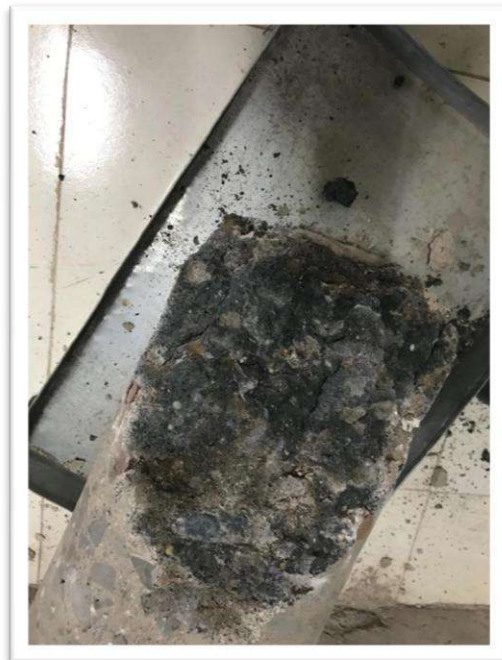


Photo 3. Tested Specimen

[BACK](#)