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GUEST EDITORIAL

The news letter of year 2018 is published for the first time by the student of our college under the guidance of **Principal Sir Mr.D.R.Suroshe and Prof.Avinash h kinkar**. This newsletter is published under the technical team of our college. Our college technical team had taken many events in our college premises. We had celebrate engineers day for the first time in our college ,in that we organize **concept of design and bob the builder** program events on the occasion of engineers day event which built future building, designing idea and construction ideas to the students. We had also taken **interaction program** for the first year students by the their seniors in which seniors interacted with fresher's and solved their all the problems and issues which in result gave us good relation of first year with seniors and college and this event lead to better participation of first year this time.

We organized **paper presentation** program in our college which helped in different ways such as confidence building, better presentation skill. We got to know many new ideas by the students in this event and different new methodology. The technical team of our college had got very positive feedback after every event organized. Many cultural events such **fresher's party** for the first year students for inviting them in our college, many events such as dancing, singing, ramp walk by the first year students was organized in fresher's party with active participation of first year students. **Teacher's day** event was organized in college for the teacher's staff for facilitating them on occasion of teacher's day and teachers also enjoyed the event. Many incidents are nowadays happening in our society with girls so our college organized **Mahila mukti divas** for women's safety especially for college girls and ladies staff mainly on soft touch and hard touch. **Swatchha abhiyan** wad organized on the occasion of sant gadge baba jayanti and different area's was cleaned by the college students and staff. **Yoga day** was also celebrated for the fitness and concentration building of the students.

Our college is not only interested in cultural or technical event we also go for sports like we had organized **box-cricket league** for staff and students in our college which got very positive feedback not only by students but also by college staff. Our college had many winners in different sports event at the zonal level and our college is also runner up in football in zonal and inters college.

We are expecting a warm hearted welcome to the efforts of the staff and student in the making of the news letter. Contribution and suggestion are gladly welcome, we hope they serve as an inspiration to one and all to work hard and succeed in life.

~**Hitesh Sharma, Pradnesh Brid**

As a part of editorial team, we welcome all suggestion, Articles, news regarding engineering academics field accomplishment of your classmates. please send Your suggestion, queries at avikinkar@gmail.com or hiteshsharma0427@gmail.com or call on 8828476085 (Technical Secretary :- Hitesh Sharma)

LOGO DESIGNED BY :- Pradnesh Brid

TECH SARASWATI

Engineer's day celebration :-

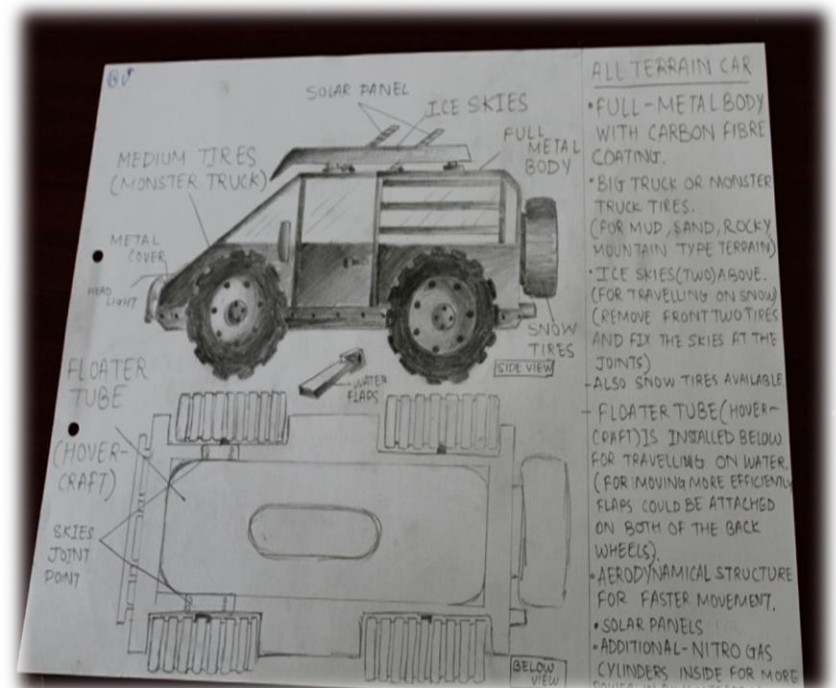
The Engineering community across in India is celebrating Engineer's day on 15th September every year as a remarkable tribute to the greatest Indian engineers Bharat Rattan Mokshagundam Visvesvaraya (popularly known as Sir MV). He is held in high regard as pre-eminent engineer of India. To give tribute to the great engineers in India our college Saraswati institute of technology celebrated engineers day on 15th September 2017. Under guidance of our college faculty and our principal sir. We Celebrated the event by organizing some memorable events such as Concept of Design and Bob The Builder.

Concept of design:-

The main motto of the event was to get future idea or planning of different topics MECH:- Hybrid bus, Handicap vehicle, All terrain vehicle CIVIL:- Underground building, Flyover, Ground water improvement.) given by the college respectively. As the feedback we got very impressive idea from the students. The participation by the students was marvelous. There were 35 students participated and as per the results the winners were declared from both the branches.

The winners were,

1st kingshuk.B.Mazumder from 2nd year MECH
2nd Gangesh.p.varma from 2nd year
Consolation price Nikhil Bahira 3rd year
& Balla Dalvi 3rd year MECH



1ST PRICE WINNER CONCEPT OF DESIGN

Bob The Builder:-

The main motto of the event was to build constructive idea or imaginary thinking of the students. The competition was like that the student have to make the model of their choice but by the material provided by the college some were provided (newspaper & salotape) & some were provided (ice-cream stick & glue). The winners was decided as per the weights carried the models made by the students.

The winners were,

1st Parvez Mulani & group weight 5KG (news paper)
2nd Anusha & group weight 4KG (news paper)
3rd Abhishek & group weight 2.5KG (sticks)

Later on price distribution was held and prices were given to the students by the honorable Principle Sir and respected HOD.



1ST PRICE WINNER BOB THE BUILDER

Interaction program with 1st year :-

In every college there should be a nice relation between the fresher's and the seniors, for that purpose our college saraswati institute of technology took initiative to organize an interaction program between seniors and the fresher's of the college on 22nd for mechanical and 23rd of august for civil and computer respectively. In the program seniors solved had a nice talk with first year student and also gave them a nice idea about their college life till 3rd year. In this program we also solved the issues or the problems faced by the students in college. First year students were given a good idea about their subjects and also they were known with the college rules and the regulations. The program was continued for about one or one and a half hour. We got a nice feedback from the students because they share their problems with us and also got suitable solution to them.

SR.NO	DATE	TIMING	BRACH
1	22 ND AUGUST	3-4	MECHANICAL
2	23 RD AUSUST	3-4:30	CIVIL AND COMP



Technical paper Presentation :-

In technical paper presentation students have to make the research paper on the topic decided and have to give presentation about that topic. The technical paper presentation program was held in college premises under guidance and with the help of principal D.R.Suroshe sir and PROF .Avinash Kinkar. The event was organized for all the branches of 2nd and 3rd year of the college on the 11th and the 12th of January 2018 in our college presentation room. We got different new ideas and the topics from the students. We got very positive feedback from students side. Each group has presented their presentation on their research paper. The student's participation was marvelous, there was 10 groups from computer dept and 5 groups from civil dept and 15 groups from the mechanical dept.

WINNER	NAME	DEPT	YEAR
FIRST PRICE WINNER	PRADNESH BRID SHUBHAM KAMTE	MECH DEPT	3 RD
	KUNDAN GIRASE PRAKASH RANDIVE	CIVIL DEPT	2 ND
	ADARSH SINGH SHUBHAM PATIL	COMP DEPT	2 ND
SECOND PRICE WINNER	GANGESH VERMA	MECH DEPT	2 ND
	SHIVRAJ GAIKWAD NINAD MATWANKAR	COMP DEPT	3 RD
THIRD PRICE WIINER	BALLA DALVI PANKAJ VASKAR	MECH DPET	3 RD

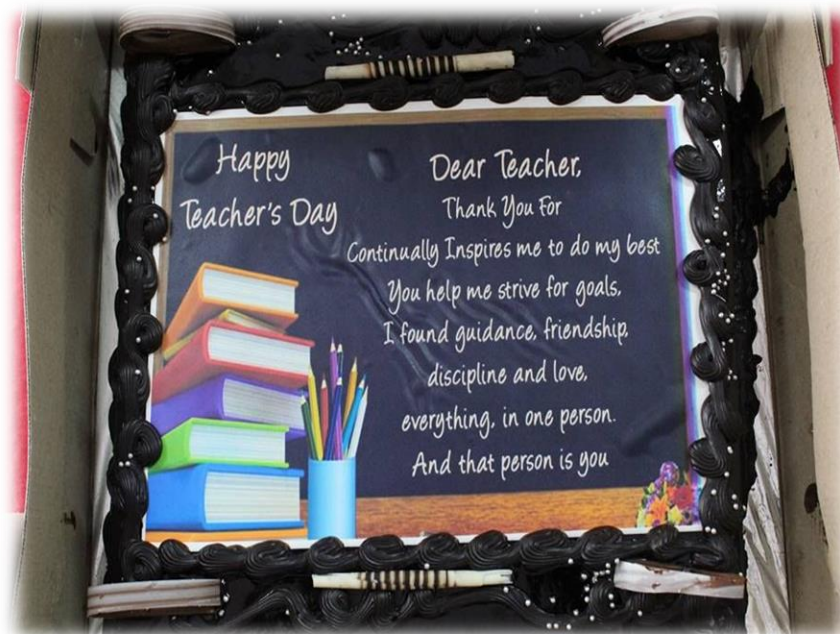


~ Hitesh Sharma

CULTURAL BOOST

Teachers day :-

Teachers day was celebrated on the 5th September 2017 at S.I.O.T, kharghar. These special day was inaugurated with the light lamping and worshipping goddess saraswati. All the teachers were invited in the seminar hall of s.i.o.t which was decorated by the lovely students. Teachers were warmly welcomed by giving roses and greeting cards and then our HOD's from all the departments shared their good thoughts with all the students and teachers present there.



After listening to the thoughts and experiences of our lovely HOD's the cake cutting ceremony for all the teachers were organized and with the light refreshments we started the game round for the day which included musical chair, fish pond , etc. The hosting for the celebration was done by the Apurva Sawant{G.S} & Aniket Yadav{A.C.S}.

The whole function created the unseperable bond between the all teachers and students. It was a special day for the appreciation of teachers which included celebration to honor them for there special contributions in a particular field area or the community in general.

Fresher's day- 2k17

The fresher's day 2k17 ,the day when the fresh faces experience the youth energy at its infinity was celebrated at S.I.O.T, kharghar on 26th September 2017. The theme for the party was " Classic Bollywood" were the participants who participated for Mr. & MS fresher title for 2017. The whole youth of the college enjoyed the day with rocking dj music the cool refreshment and many more.



Different program was organized such as dancing, singing, ramp walk and all the participants was from first year. The competition was very tough between the participants and it was very hard for judges go to give the result. The youth aura was so powerful that even the teachers couldn't resist dancing. The Ms. fresher title was won by 'Aishwarya Bagal' & Mr. fresher title was 'Satish Joshi'

The event was hosted by Ravi Kewat {S.S} & Aniket Yadav{ A.C.S}.

As on the name of theme classic Bollywood the fresher's evening was as classy as the name.



~ Apoorva Sawant

Sports

Table tennis zonals

On 9th jan 2108 our college held a tournament for table tennis for diploma students. The credits goes to principal sir Mr. D.R. suroshe who agree for organizing torment with in the flash. The slots were made in presence of all the team manger of different college. The torment were stated at 10 am sharp after enlighten the lamp by principal sir the matches were played according to the slots and referee had a prefect eye on the game the decision made by the referee were satisfying and there were's no chaos as such between the game and the whole tournament was played according to the schedule all the players were appreciated for playing fair and maintaining sportsmanship the winner and runner up were awarded with the respected trophy .



Football zonals:-

Our college players of respective sports played well and very good in each and every sports they participate. Our college football team lead by ravi kevat went till the finals but loss in the final. They accepteded they loss with the sportsman sprit of each and every player. Our college football team was winning zonal leve for last 5 years continuously but this chain came to an end this year. Our college staff always support as for the pratice to play us well.

Zonal Sports Achievement's :-

Sr	NAME	BRANCH	EVENT	RANKS
1.	TATOBA GAWADE	TE-CIVIL	SHOT PUT	1 ST
2.	ANOOP KUMAR ARYA	SE-CIVIL	TRIPLE JUMP	1 ST
3.	ANOOP KUMAR ARYA	SE-CIVIL	HIGH JUMP	2 ND
4.	KIRAN PASLAKAR	SE-MECH	TRIPLE JUMP	3 RD
5.	ANOOP KUMAR ARYA	SE-CIVIL	LONG JUMP	3 RD
5.	AMRIT SINGH	TE-MECH	DISCUS THROW	3 RD
6.	NIKHIL JADHAV	TE-CIVIL	1500M	3 RD
7.	RATHOD RITIK	SE-CIVIL	77KG WEIGHT LIFTING	2 ND
8.	YASH GOLE	SE-CIVIL	69KG WEIGHT LIFTING	3 RD
9.	RATHOD RITIK	SE-CIVIL	74KG WRESTLING	2 ND
10.	YASH GOLE	SE-CIVIL	70KG WRESTLING	3 RD



Box Cricket

We just don't play to represent our college we play to express our self to everyone so we also play different sports in our college with everyone means teaching staff nonteaching staff and also accounting staff we play together Mechanical department had organized box cricket tournament under presence of our principal D.R.Suroshe sir, (lect,Technical Head) Avinash Kinkar sir and (lect,Sport Secretary) Nilesh sir on 25th, 26th and 27th december respectively in our college premises in which every one was invited from our college and the response given by the staff and students was appreciable and in this game there were different tournaments for students staff and womens staff .. Winner from students section was from computer branch and from staff section was account section and womens staff. As we have heard that cricket is not just a game it's a emotion for many people we can say that its true because just by the name of cricket tournament college was just litrally light up due too which the environment was energetic . Finally at the end of the event winner and runners up were apriciated .

Collaboration With YIN

Gram Swachhata Abhiyan

Gram Swachhata Abhiyan was celebrated at the SIOT, Kharghar on 20th December 2017. The Abhiyan was celebrated in the presence of principal sir Prof. D. R. Suroshe sir. He expressed his views on Gram Swachhata Abhiyan and guided about cleanliness in day to day life. Yin Housing State Minister Mr. Abhishek Bhosale organized Gram Swachhata Abhiyan in SIOT College. Mr. Avinash Kinakar sir, Mr. Amar Murumkar sir, Mr. Atul Mohite sir and Yin members participated in this Abhiyan. The media partners were Sakal newspaper and Saam TV organized by Mr. Abhishek Bhosale. After speech all the staff and students cleaned the college campus.



International Yoga Day

The International Yoga Day was celebrated at the S.I.O.T, Kharghar on 21st June 2017. The yoga day was celebrated in the presence of the honorable chief guest Mrs. Pradnya Patil Madam from Yog Niketan Vidya Mandir, Vashi. She expressed her views on the yoga day and guided us about the importance of yoga in our day to day life. The media partners were Sakal newspaper and Saam TV organized by Mr. Abhishek S. Bhosale (TY Mechanical). Later, the yoga session was performed with all the faculties of the SIOT. Our principal sir Mr. D. R. Suroshe also showed the participation while performing yoga. The spirituality which was created while the yoga session was beyond the words!!



Mahila mukti din :-

The Mahila Mukti Din was celebrated at the S.I.O.T, Kharghar on 8th January 2018. The Mahila Mukti Din was celebrated in the presence of the honorable chief guest Mrs. Mita Madam. In welcome speech, Prof. D. R. Suroshe expressed his word of gratitude to guest Dr. Mita Rajaram and addressed students regarding contents of lecture.

In the next resource person Dr. Mita Rajaram started her discussion with concepts of Mahila Mukti Din. She also explained difference between past and present women. She gave so many examples related to topic. She shared her own experience. It was really good session.

The media partners were Sakal newspaper and Saam TV organized by Mr. Abhishek S. Bhosale (TY Mechanical).

Later, the yoga session was performed with all the faculties of the SIOT. Our principal sir Mr. D. R. Suroshe also showed the participation while performing yoga.

The spirituality which was created while the yoga session was beyond the words!!



~ Abhishek Bhosale

Faculty Training Program



Civil Engineering department has organized a one week workshop on AutoCAD software from 18th to 22nd December 2017 for Faculty of civil and mechanical engineering. The program was conducted for faculty development program in association with CADD CENTRE, Kharghar. The Program was conducted for better understanding of CAD (computer aided drawing) and clear basic concepts and hands on practice for the same. The program inclusive conducted for 2D and 3D knowledge for the faculty.

This program also helpful for improving teaching and learning ability of staff also conducting cad practicals of both department. In msbte syllabus cad have practical exam so it could be result improving for student also.

~ Vinay Kamble

MECHANICAL DEPARTMENT EVENTS (2017-18)

A 3-day workshop by “**National Technical Institute**” was organized on “**Advance Engine Repair Technologies Program**” for Third Year Mechanical Engineering students from 12/09/2017 to 14/09/2017. The workshop was conducted for two days in our college premises to impart theory knowledge to the students and one day at NTI Thane center for practical training.

During the practical session the students were accompanied by two faculty members Mr. Nilesh Borkar and Mr. Jitesh Mane. The entire session was extremely informative, and the students gained valuable information about their subject Automobile Engineering.

Industrial Visit was organized on 08/12/2017 in Baddi which is approximately 36kms from Chandigarh. 37 students along with 3 staff members Mrs. Soma Karmokar (Teaching Staff), Mr. Avinash Kinkar (Teaching Staff) and Mr. Babasaheb Yadav (Non-teaching Staff) went for the tour. Following companies were visited during the tour:

1. MICRO TURNERS Group, founded is one of the largest integrated Automotive component manufacturers in India. Micro Turners is mainly into the manufacturing of major automotive parts. Micro Turners mainly aims at expanding their business across the globes through technological excellence.

2. The Amtek Group, headquartered in India, is one of the largest integrated component manufacturers in India with a strong global presence. It has also become one of the world’s largest global forging and integrated machining companies. The Group has operations across Forging, Iron and Aluminium Casting, Machining and Sub-Assemblies.

Industrial Visit was organized on 20/01/2018 in Katraj Dairy, Pune 111 students along with 3 staff members Mr. Vishal Pawar, Mr. Avinash Kinkar and Mr. Arjun Kadam. Katraj Dairy with its nine chilling plants almost all over the district has an installed milk handling capacity of over 5 lakh liters per day. During the visit screening of documentary was shown to the students, also visit to various dairy sections like milk processing, boiler, refrigeration, Effluent Treatment Plant (ETP), etc were included. This visit helped the students with contemporary development in various fields of specialization and functioning of different departments, which will immensely help them to get immense knowledge about the subject of Thermal Engineering.



CIVIL DEPARTMENT EVENTS (2017-18)

On 23rd Sep, 2017 our second year student had guest lecture on Building bye-laws by Mr. Sachin Mathankar working in CIDCO. The students learned about all the bye-laws of building practice in industry and in CIDCO too, such as Floor Space Index, set-backs in residential as well as commercial building, building margins, designing of staircase according to Laws.

Third year students of civil department visited the Bhatsa Dam ,Shahapur on 8th September,2017 to gain some information about Dams ,components of dams, their working and maintenance as it is related to the subject of Irrigation Engineering in our educational curriculum. They also saw galleries in dam, diversion head works, canal system, and drainage galleries in dams. Our third year students attended workshop on analysis and design of steel structure on Stadd pro from 22nd September to 24th September 2017 in SIOT, Kharghar. The workshop was kept in collaboration with ACADCNTRE , Kharghar. They learned basic commands in stadd pro software along with designing of steel structures. They did hands on practice to design elevated water tank tower, bridge girder, and steel roof truss for industrial shed.

The Third year students of civil department visited Water Treatment Plant (Panjarapur, Pise), on 09th September 2017 to gain some practical knowledge on Water Treatment as it is part of our syllabus for the subject Public Health Engineering(5th semester, Civil Engineering). They also learned about the units required for the treatment plant. They saw type of inlet system, skimming tank, types of screening process, sedimentation tank, filtration process, outlet system, distribution system in water. The third year students of civil department visited at sector-6, Kharghar, Navi mumbai to see RCC structures and its components on 11th January 2018. They gain knowledge about RCC components such as column, Beam and slabs of under construction of Army hospital. They saw formwork and reinforcement detailing on construction site, concreting on column and slabs, deshuttering of slab and beams and also architecture and RCC detail drawings.

Our third year students attended workshop on Personality development on 16th January 2018 in SIOT, Kharghar by Mr Amol Shimpi working at RICS AMIT. The workshop was kept to improve their interview skills and communication skills at the time of industry placements in college and outside industry too. They also learned soft skills, dressing and behaving antiques at the time of interview.



COMPUTER DEPARTMENT EVENTS (2017-18)

We arranged an workshop on virtual Reality workshop for a duration of 3 days from 16/1/2018 to 19/1/2018. Mr. Rahul Gupta from Intellect Technology was the head of the training of the program.

This lecture helped the student to know more about virtual reality and how its being used in different application. Student were able to design their own application using unity using Virtual Reality headset and after designing their own application it was being converted into an android app and was downloaded in to the mobile and were able to view their own app using V R headset. V R is being used in most all the applications like movies, stimulation, facebook, etc. Students fully enjoyed this workshop and also they created their own application by attending this workshop. This will helpful to them for new start-ups. On 19th sept 2017 Computer Department organized a Technical Chart Competition for 2nd year students.

The main motivation behind this competition was to improve Technical Skill for the students. This Competition was driven by n number of ideas to create awareness in students. Computer Department Lecturer Miss.Varsha Mahadik had taken extra effort to organize this competition under the guidance of HOD Mr. yassir farooqui . He was very interested to organize such activity in Department. The competition was held in programming lab & began at 10:00A M. Each student had designed their own Charts depending upon their interested topic in the field of computer engineering. A n Industrial Visit to Indian Institute of Geomagnetism (IIG), Mumbai was conducted by Computer Department of S.I.O.T, Kharghar for Second year and Final Year students of Computer for 1 day i.e. on 27/09/2017. The Indian Institute of Geomagnetism (IIG), Mumbai is a leading institute of the country, actively engaged in basic and applied research in Geomagnetism and allied areas of Geophysics, Atmospheric & Space Physics and Plasma Physics. Our third year students attended Workshop on Arduino Programming from 22/09/17 to 24/09/17 in SIOT, Kharghar.

The workshop was held in database lab .Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so you use the Arduino programming language (based on Wiring), and the Arduino Software (IDE), based on Processing. They will read data from board, on sensor and social network. This will helpful to them for new start-ups.



~ Varsha Mahadik

TOPPERS (2017-2018)

Third Year



MECHANICAL

1st Ballal Dalvi 82.66%
2nd Ashish jadhav 82.33
3rd Nitesh Thakur 81.11%



CIVIL

1st Ajay Kasalkar 85.41%
2nd Shriniwas Deshmukh 80%
3rd Rohit Metkari 79.53%



COMPUTER

1st Shivraj Gaikwad 86.13%
2nd Nisha Jadhav 73.5%
3rd Shivanshu Sinha 71.25%

First Year

Ajay Pujari 73.14%

Dayanand Panaskar 76%

Kaushal Verma 78.86%

Use of Waste Plastic in Construction of Flexible Pavement

Polymer modified bitumen is emerging as one of the important construction materials for flexible pavements. Use of plastic waste in the construction of flexible pavement is gaining importance because of the several reasons. The polymer modified bitumen show better properties for road construction & plastics waste, otherwise considered to be a pollution menace, can find its use in this process and this can help solving the problem of pollution because most of the plastic waste is polymers.

The use of plastic materials such as carry bags, cups, etc. is constantly increasing. The consumption of plastics have increased from 4000 tons/annum (1990) to 4 million tons/annum (2001) and it is expected to rise 8 million tons/annum during the year 2009. Nearly 50 to 60% of the total plastics are consumed for packing. Once used plastic materials are thrown out. They do not undergo bio-decomposition. Hence, they are either land filled or incinerated. Both are not eco-friendly processes as they pollute the land and the air. Any method that can use this plastic waste for the purpose of construction is always welcomed

In the modified process (dry process) plastics-waste is coated over aggregate. This helps to have better binding of bitumen with the plastic-waste coated aggregate due to increased bonding and increased area of contact between polymer and bitumen. The polymer coating also reduces the voids. This prevents the moisture absorption and oxidation of bitumen by entrapped air. This has resulted in reduced rutting, raveling, and there is not pothole formation. The road can withstand heavy traffic and show better durability



~ Vinay Kamble