

SRICT

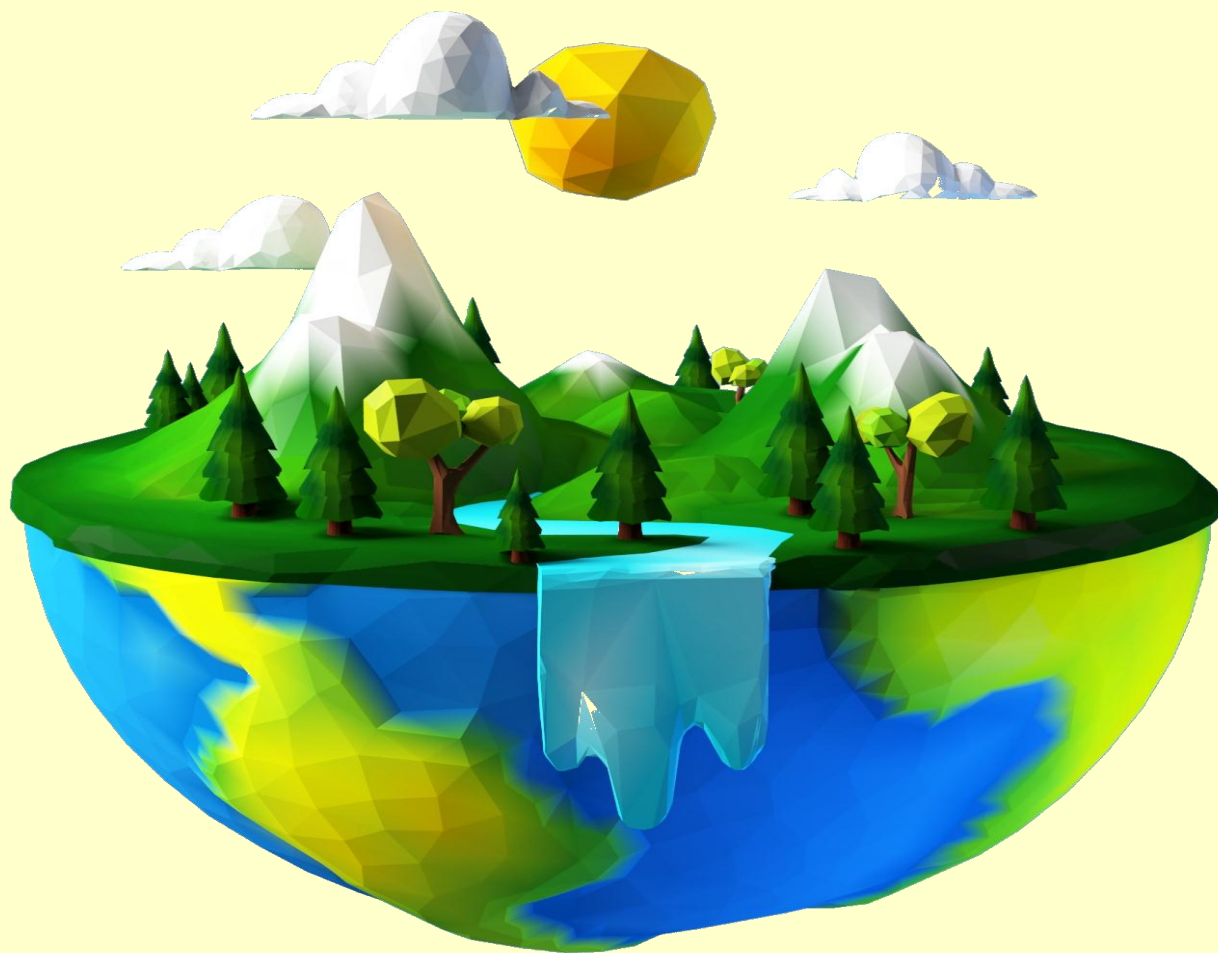


EARTHY-WORTHY

10th issue

JULY-SEPTEMBER 2019

**DEPARTMENT OF ENVIRONMENTAL SCIENCE &
TECHNOLOGY**



We share because we care

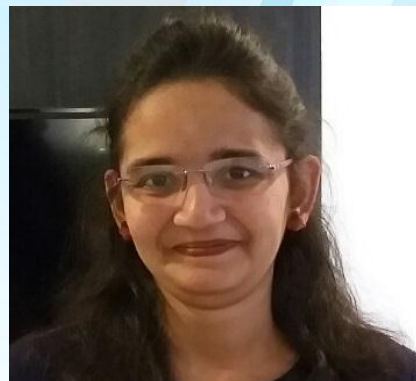
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EDITORIAL BOARD



Ms. Pratibha Gautam
HOD-DEST



Ms. Bhasha Mehta
Asst. Prof- DEST



Ms. Kale Prasad
SEM - III
DEST



Ms. Vanshika Rana
SEM - V
DEST



Ms. Bansari Shah
SEM - VII
DEST

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Department of Environmental Science & Technology

Program Educational Objectives

- To excel our students in the field of environmental science and technology in order to provide economical, safe, and sustainable solutions of complex engineering problems pertaining to various environmental challenges.
- To educate our students with such high standards of teaching and learning coupled with rich hands on experience and project based experience that they are recognized globally for their sound technical capabilities and professional ethics.
- To prepare our students to demonstrate excellent abilities in interdisciplinary fields of environmental management such as waste water treatment, air pollution control and solid waste management.
- To develop our students' analytical skills and their ability to use modern engineering tools to critically evaluate and amalgamate various state of the art techniques of science and engineering to cater the need of sustainable development.
- To ensure our students to bring synchronization between industry and institute, and also to develop and promote industry oriented research at institute.

Department of Environmental Science & Technology

Vision

“To become globally recognized as a pioneer in the field of Environmental Science and Technology by providing world-class education and training to students to deal with global environmental challenges by research based sustainable solutions.”

Mission

- To prepare an innovative curriculum with a holistic approach of continual improvement in order to address environmental challenges.
- To Impart sound scientific and technical knowledge in environmental management.
- To Orient students to analytical techniques by offering state of art laboratories and innovative experiments.
- To Practice and promote multi-disciplinary research leading to sustainable development.
- To establish relationship among Industry-Academia-Research institution and undertake collaborative research projects to deliver scholarly output.

DEPARTMENTAL

ACTIVITIES

EXPERT LECTURES

Department of Environmental Science & Technology organizes expert lecture for the students in order to bridge the gap between industry and curriculum. Experts from different field deliver lectures for the students of different semester.

Sr. No.	Semester	Name of Expert	Designation of Expert (With name of industry)
1	3	Dr. N J Sojitra	Director (Colochem India Limited)
2	3	Dr C B Upasni	Director (Jyoti Om Chemical Research)
3	3	Dr Jayesh Shah	Ex. Senior Scientist (BARC)
4	3	Mr. Saumil Shah	Sr Manager (ESH) (GNFC)
5	5	Mr Jagdish Modi	Senior Safety Officer (GNFC)

EXPERT LECTURES

Sr. No.	Semester	Name of Expert	Designation of Expert (With name of industry)
6	7	Mr. Viral Prajapati	Safety Engineer (Safety Soldiers Bharuch)
7	7	Dr. Jayesh Shah	Ex. Senior Scientist (BARC)
8	7	Dr. Ashok Rathoure	MD (BIOHM)
9	7	Snehal Trarsawala	Director
10	5	Pratik Dholakiya	Safety Engineer(Safety Soldiers Bharuch)
11	5	Dr. D G Udas	Director(Ultra Conserve Private Ltd)
12	5	Dr. Ashok Rathoure	MD (BIOHM)

Glimpse of Expert Lecture



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Industrial Visit

Sr. No.	Semester	Name of Industry	Correlated subject
1	III	NCTL, Panoli	WWT
2	III	Riddhi Pharma	EM-1
3	III	CETP Pandésara Surat	EM-1
4	V	Reva Proteins	LET-1
5	V	En vision Surat	Plastic Management
6	V	UPL-1	WWT & Safety
7	VII	Surya Life Science	SHE & ETP
8	VII	Amul Anand	WWT
9	VII	Rallis	NWTS

Glimpse of Industrial Visit



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INDEPENDENCE DAY CELEBRATIONS

Department of Environmental Science and Technology of SRICT organized 73rd Independence Day Celebrations at SRICT Campus.

Chief guest of the event was Rtn. Bhupendra Shroff. Celebration included Flag Hoisting followed by Parade, first time in SRICT history.

Cultural Programmes included dance performed by students of DEST, music, singing and distribution of Nature Club Prizes.



INDEPENDENCE DAY CELEBRATIONS



A poster for Independence Day celebrations. It features a large white triangle in the center, flanked by orange and green diagonal stripes. Inside the triangle is the Ashoka Chakra. Above the triangle are three white jets flying in a V-formation. The SRICT logo is positioned below the jets. The UPL logo is in the bottom left corner. At the bottom, there is a stylized illustration of a fort with the Ashoka Chakra in the center. The text 'Coordinated By Department of Environmental Science & Technology' is at the bottom.

Shroff S.R. Rotary Institute of Chemical Technology
Welcomes You to Celebrate
73rd Independence Day on
15th August 2019

Coordinated By
Department of Environmental Science & Technology



A poster for Independence Day celebrations. It features a large white triangle in the center, flanked by orange and green diagonal stripes. Inside the triangle is the Ashoka Chakra. Above the triangle are three white jets flying in a V-formation. The SRICT logo is positioned below the jets. The UPL logo is in the bottom left corner. At the bottom, there is a stylized illustration of a fort with the Ashoka Chakra in the center. The text 'Coordinated By Department of Environmental Science & Technology' is at the bottom.

Shroff S.R. Rotary Institute of Chemical Technology
Welcomes You to Celebrate
73rd Independence Day
on 15th August 2019

Glimpse of the Event





Parent Teacher Meeting

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PTM (SAMPARK ABHIYAN)

Department of Environmental Science & Technology organized Parents Teacher Meeting PTM (Sampark Abhiyan) on 21st September 2019.

Points discussed were:

NBA

Attendance

Discipline

Class Tests

Outcome of the meeting:

Parents appreciated affordable transportation facilities and discipline of SRICT.



Participation of students of DEST in Technovation (Technical Fest of SRICT)

Name of Event	Participants	Name of Winners
Inflenzo	50 groups ,150 students, 80 students of DEST	<ol style="list-style-type: none"> 1. Patel Mihirkumar,Amit ,Lukman Baduda (GEC, BHARUCH) 2. Harishverma, Prashant Jadav,Nikunj Patel (CE5th sem) 3. Meet Bhanusali,Manan Kumawat,Vibhuti Kishore (EST 1st sem)
May I know your solution	24 groups, 72 participants AND 60 FROM dest	<ol style="list-style-type: none"> 1. Shivam Parekh,Nitu Chamdel and Divya Maisuriya(EST 7th SEM) 2. Puniot PATEL, Aditya Chiumal and Mionuil Modi(Maisuriya(EST 7th SEM. ct7TH SEM AND CT 5TH SEM))
Can You figure it out	43 groups, 86 participants and 70 from DEST	<ol style="list-style-type: none"> 1. Sudeep Desai and Dhrumi Parmar, EST 7th sem 2. Aniket PATRE AND Abhishekh Kusurkar,EST 1st sem 3. Tasvir Patel and Monil Modi ,EST 7th sem

GLIMPSE OF TECHNOVATION



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Training and Placement Activities

Various training and Placement activities are carried out to enhance technical and professional skills and confidence of students.

Activities Include:

Mock Tests

Group Discussion

Mock Interviews

El Discussion

GLIMPSE OF T& P ACTIVITY



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KNOW YOUR FACULTY



Name: Mr. Darshan Salunke

Qualification: M.E (Environmental Engineering)

DOJ: 15/7/19

GLIMPSE OF NATURE CLUB ACTIVITY



POSTER PRESENTATION

Name of the Event: MIND MAPPING

Date of the event: 20th July

Theme: “ Water crisis and innovative ideas to deal with it (Community level)”.

GLIMPSE OF THE EVENT:

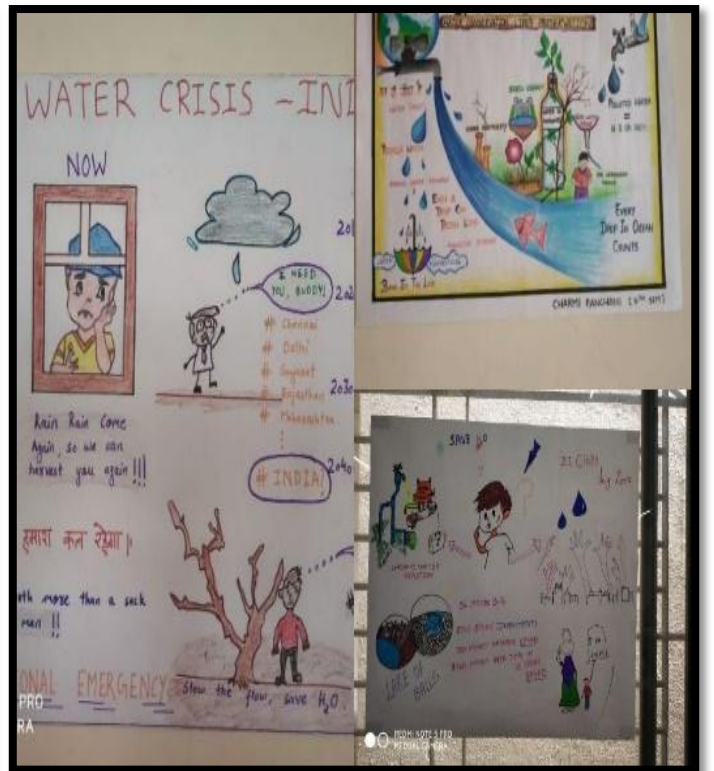
Active participation was there of the students from all departments.

20 innovative ideas in the form of posters were presented. Judges of the event were Dr. Omprakash Maharwad, (HOD - DCT) and Ms. Jalpa Thakkar (HOD-DEE).

The entire event was coordinated by Ms. Bhasha Mehta under the guidance of Ms. Pratibha Gautam.



GLIMPSE OF THE EVENT



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POWER POINT PRESENTATION

Name of the activity: “Presenting Ideas”.

Date of the activity: 10th August 2019

Theme of the activity: Water Crisis and Innovative Ideas to deal with it at Community Level.

GLIMPSE OF ACTIVITY:

8 teams of different departments of SRICT have participated and presented technical, dynamic and feasible ideas which impressed judges of the event.

The event was judged by Mr. Kartik Iyer(DCT) and Mr. Darshan Salunke(DEST) and it was coordinated by Ms. Bhasha Mehta under the leadership of Nature Club Coordinator and HOD-DEST Ms.Pratibha Gautam.



GLIMPSE OF THE EVENT



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CLEAN DRIVE

Name of Nature Club Activity: CLEAN DRIVE

Date of Activity: 8/09/2019

Glimpse of the event

25 students and faculties of Department of Environmental Science and Technology along with the Principal of SRICT, cleaned the area near Ragini Cinema with the theme of "Clean Ankleshwar, Clean India".

Students from 1st Sem EST, CT, CE and some 7th Sem EST students have actively participated in it.

The team has handpicked the rubbish waste and have collected 3 dustbin bags (black bags) full. Looking at the team's effort, nearby people have also supported this initiative.

Nature Club is planning to do such activities more frequently.



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FACULTY INTERACTION WITH MENTOR

Mr. N.K.VERMA

Department of Environmental science and Technology had conducted Faculty interaction with mentor of DEST Mr. N.K.VERMA on 23rd July 2019 where faculties interacted with him regarding research and different projects to be incorporated thereby leading to development in the specific field.



STUDENT INTERACTION WITH MENTOR

Mr. N.K.VERMA

Department of Environmental science and Technology had conducted interaction with mentor of DEST Mr. N.K.VERMA on 23rd july 2019 for the students of 7th semester where they discussed regarding their project and sir guided them in order to streamline their work.

The event was coordinated by Mr. Manoj Kumar under the guidance of HOD, DEST Ms. Pratibha Gautam.



OTHER ACTIVITIES

Ms. Pratibha Gautam, HOD(Department of Environmental Science and Technology) delivered session on "WASTE MANAGEMENT" for the students of 1st Year where she described the value and importance of managing the waste in a appropriate manner along with explanation of basic terms.



new Student ORIENTATION

Preparing You for Success from Day One

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ORIENTATION PROGRAMME FOR EST FIRST SEM

Orientation program for SEM-1 EST students was done on 18/07/2019. Students were made aware about the importance of attendance, Extra-curricular activities.

They were also made aware about Department along with different types of labs and regarding their curriculum. Orientation was carried out by Ms. Pratibha Gautam, HOD(DEST)



ORIENTATION PROGRAMME FOR EST SEM 3

Orientation program for SEM-3 EST students was done on 5/07/2019. Students were made aware about the importance of attendance, Extra-curricular activities, Roles and responsibilities of Class Representatives.

They were also made aware about vision, mission, NBA accreditation process and its benefits. Orientation was carried out by Ms. Pratibha Gautam, HOD(DEST) and Ms.Bhasha Mehta, class coordinator, sem 3



ORIENTATION PROGRAMME for EST SEM 5

Department of Environmental Science and Technology generally conducts orientation programme in order to make students aware regarding attendance, discipline, 100 points and importance of mid exams in the coming semester.

Orientation program for SEM 5 EST students was done on 24/06/2019.

Students were made aware about the importance of attendance, Extra curricular activities, Roles & responsibilities of Class Representatives.

They were also made aware about NBA accreditation process and its benefits.



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ORIENTATION PROGRAMME FOR EST SEM 7

Orientation program for SEM-7 EST students was done on 06/07/2019. Students were made aware about the importance of attendance, Extra-curricular activities, Roles and responsibilities of Class Representatives.

They were also made aware about vision, mission, NBA accreditation process and its benefits. Orientation was carried out by Dr.Snehal Lokhandwala and Mr.Manoj Kumar.



Students Achievement in QCFI CONVENTION

Divya Maisuriya , Hitarthi Kardani, Mahima Maisuriya from Department of Environmental Science and Technology had won 2nd price (SILVER AWARD) in QCFI convention where students represented 5S practices which is usually practiced in SRICT at departmental level.



STUDENT ACHIEVEMENT



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SHINING STARS OF 4TH SEM



**ICHHAPURIA KRISHNA
JAYESHKUMAR
SPI 9.91**



***RANA PANKTI
NITESHKUMAR
SPI 9.73***

SHINING STARS OF 6TH SEM



SHAH BANSARI

9.7



SANGHANI JENISH

9.67

SHINING STARS OF 8TH SEM



LIMBASIYA UPASNA
10 SPI



AKSHITA SHAH
10 SPI



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SMT PRAKASHVATI GUPTA SCHOLARSHIP of Rs.7500/- was awarded to Ms. Unnati Prajapati of 4th semester, 2nd Year of Department of Environmental Science and Technology having 9.5 spi by Mr. Sushil Kumar, Retired President, RIL, Dahej in presence of Principal Sir on 21st September 2019. Ocassion was graced by HOD, DEST.



Matki Decoration Competition organized by Department of Environmental Science and Technology



Name of the Event: **Matki Decoration Competition**

Date of the event: 22/08/2019

GLIMPSE OF THE EVENT:

Students from all Branches of SRICT have participated in it.

All Materials for Decoration along with “Matki” had been brought by participants.

Jury members of the event were Ms. Mital Patel and Ms. Bhasha Mehta .

Principal of SRICT and Head of DEST had motivated all participants and coordinators of event which was coordinated by Mr. Darshan Salunke.



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RESEARCH



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FACULTY RESEARCH

Journal of Cleaner Production 237 (2019) 117639



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Journal of Cleaner Production

journal homepage: www.elsevier.com/locate/jclepro



Review

Advanced oxidation processes for treatment of leachate from hazardous waste landfill: A critical review

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COD reduction

ABSTRACT

Leachate produced from hazardous waste landfills (HWLs) is toxic and contain high concentration of refractory organics, ammoniacal-nitrogen, heavy metals, inorganic salts and organo-chloro compounds. Various Advanced Oxidation Processes (AOPs) have been developed in last few decades for efficiently treating the landfill leachate and many are still under development. Researchers have reviewed the performance of conventional AOPs for treating leachate produced from municipal solid waste landfills (MSWLs) but as this leachate is entirely different in characteristics from HWL leachate, these studies are not very useful when it comes to management of HWL leachate; also, specific studies focused on HWL leachate are rarely available. Present study critically reviews various AOPs involving ozone, UV radiation, hydrogen peroxide, electrocoagulation and electrochemical oxidation for their mechanism, treatment efficacy, advantages and limitations with a focus on HWL leachate. A brief review of emerging AOPs like wet air oxidation, hydrodynamic cavitation and ultrasound assisted AOPs is also discussed. This study also aims to identify the AOP which is user friendly, capable to treat the HWL leachate efficiently, discourage the use of chemicals and can be operated at ambient temperature and pressure. After thorough review of different AOPs, Electrocoagulation appears to be a very promising and effective AOP involving in-situ generation of coagulants and converting the organic pollutants in simpler and noble compounds like carbon dioxide and water. Electrocoagulation can be considered as one of the greener and cleaner technology for treatment of HWL leachate, which on optimization can result in a reduction of COD up to 60% along with considerable decrease in metal content in range of 70%–90% and has further potential of improvement and research.

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Contents

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5-Year Impact Factor: 7.051

SCI Journal Rank (SJR): 1.620



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Environmental toxins impair immune system over multiple generations

Date: October 2, 2019

Source: University of Rochester Medical Center

Summary: New research shows that maternal exposure to a common and ubiquitous form of industrial pollution can harm the immune system of offspring and that this injury is passed along to subsequent generations, weakening the body's defenses against infections such as the influenza virus.

Source: University of Rochester Medical Center

How Visakhapatnam's hotels and restaurants are reducing their plastic usage

Around two months ago, Plot 17 Café replaced plastic straws with metal ones and introduced refillable glass bottles for water. “On an average, we sell around 50 beverages a day, which means that many straws. And in a cafe known for mocktails and shakes, the figure is almost double. Imagine the mess it will cause environmentally,” says Sumanth Behara, owner of the café.



Source: <https://www.thehindu.com/sci-tech/energy-and-environment/how-visakhapatnams-hotels-and-restaurants-are-reducing-their-plastic-usage/article29655267.ece>

BIRTHDAY BUDDIES



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FACULTY BIRTHDATES

Ms. Pratibha Gautam
Mr. Kunal Majmudar
Ms. Dipal Ravalji

STUDENT BIRTHDATES

GANDHI HET BHAVIKKUMAR

LUNAGARIYA BANSARI CHIMANBHAI

PRAJAPATI DISHANTKUMAR DHANSUKHBHAI

BORKHATARIYA KRUPA KHIMANANDBHAI

LIMBASIYA MAYUR

PARMAR DHARA SURENDRASINH

PATEL JAHNAVI

TALSANIYA MEHUL DALPATBHAI

BHALIA RUTVIKA ROHITKUMAR

GOHIL DIVYAJITSINH HARENDRASINH

KAPADIA JANKI VIPULKUMAR

LAD ISHA MANOJ

MODI JENCY CHETANKUMAR

PATEL PRIYA ALPESHKUMAR

PRANKADA VIRAJISINH JAYDEVSIKH

TANDEL GUNJAKUMARI HARILAL

A photograph of a light-colored wooden surface with a prominent grain. A square, cream-colored card is placed diagonally on the surface. The words "Thank You" are printed on the card in a large, bold, black serif font. A black fountain pen with gold-colored accents is lying diagonally across the top right corner of the card. The entire image is tilted at an angle.

**Thank
You**

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