



energising lives

# JWALADHWANI

JUNE 2023 / VOL. LVIII/06

Energising Kochi Refinery



भारत 2023 INDIA

वसुधैव कुटुम्बकम्

ONE EARTH • ONE FAMILY • ONE FUTURE

## EDITORIAL

# HAPPY SHOWERS OUR WAY

## HIGHEST GRM, HIGHER PROFITS

While the monsoon is still a short wait away, its raining great in terms of the financial and physical performances posted by BPCL in 2022-23. We are super excited to share the appreciation and encouraging messages from our Chairman and Managing Director, our new Director (HR) and also our new Executive Director (Kochi Refinery) in this special edition of JwalaDhwani.

The year that went by did have its low points way up to the end of 2022, but come last quarter, it was a super turn in favour of BPCL. The excitement is worth a celebration on all fronts and a great benchmark for us too.

BPCL is betting big on expanding its market beyond domestic customers and Kochi Refinery is being spotlighted to hold the torch for this expansion. Read more about our project update on the augmentations of Coastal Infrastructure Facilities in Kochi. We also brought home accolades from the BPCL Refineries Conclave that concluded recently.

On the Missions for the month, let us re-dedicate ourselves to Mother Nature, on the World Environment Day, 05 June 2023. Please join the national campaign being propelled by the Environment Team.

All this and more only confirms that happy showers are on the way. Stay inspired.

Warmly,  
Editor

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As the external environment continues to be highly dynamic and challenging, it is imperative that we sharpen our ability to anticipate ongoing trends and act swiftly.

**G KRISHNA KUMAR**  
CHAIRMAN &  
MANAGING DIRECTOR

Dear Colleagues,

Hearty Congratulations on the spectacular performance in the fourth quarter of the year 2022-23

I am delighted to share that in this quarter, we have achieved standalone Profit After Tax (PAT) of Rs.6,478 crores, riding on high refining margins. While we incurred losses in the first nine months of the year, the superlative performance in the fourth quarter has helped close the year on a positive note. Some of the highlights are:

#### Financial performance

- Standalone Profit After Tax (PAT) for the year stood at Rs.1,870 crores.
- Record Gross Refining Margins of over \$20/barrel during the year.
- Highest ever Revenue from Operations of Rs.5,33,468 crores, registering a growth of more than 23% over the previous year.

#### Physical performance

- Growth leader in market sales amongst PSU OMCs in both MS & HSD, achieving record volumes of 48.9 MMT in 2022-23, with a growth of 15% over previous year.
- With Bina Refinery becoming an integral part of the BPCL family, our combined refinery throughput stood at 38.5 MMT, a capacity utilisation of 109%.

I invite you to have a closer look at our financial and physical performance as per the published results.

I take this opportunity to thank each one of you for all the hard work and dedication in ensuring excellent performance and continued progress of the Company. We have, time and again proved our mettle in overcoming challenges and crafting our way to success and enhancing stakeholder value.

Having said that the year 2023-24 brings in its own set of challenges with product cracks and crude going southwards impacting refining margins. As the external environment continues to be highly dynamic and challenging, it is imperative that we sharpen our ability to anticipate ongoing trends and act swiftly. In such a scenario, we need to have people & the customer at the centre of all our actions and be agile in our response. We also need to ensure that success of critical projects by being innovative and having a relentless focus on cost, while ensuring the highest standards of Safety and Governance in all our activities.

We have envisioned a bigger and a better tomorrow and I am confident that with our collective efforts we will realise our aspirations .

All the best.

**G Krishnakumar**



I am excited that we are together embarking on this journey which will not just be a journey of transformation of business; but transcendence of this organisation into even more glorious workplace, which creates bounteous moments of happiness and plentiful moments of pride and achievements for teams and individuals.

**RAJ KUMAR DUBEY**  
DIRECTOR (HR)

Dear Colleagues,

I am extremely happy to be connecting with all of you and excited in equal measure as I embark on this new journey in this great organisation, as custodian and advocate of its culture, values, and people practices. I have always admired BPCL for its sheer professionalism, pioneering & innovative spirit leading to several pathbreaking initiatives in business and human processes, and a rich heritage which I am sure each one of you must be so proud of. In the last couple of days, during the interactions I had so far, after I assumed charge as Director (HR), I could sense a sincerity of purpose and commitment among all, which is really inspiring.

I am excited that we are together embarking on this journey which will not just be a journey of transformation of business; but transcendence of this organisation into even more glorious workplace, which creates bounteous moments of happiness and plentiful moments of pride and achievements for teams and individuals. Here, I would like to state my commitment for the endeavour to make BPCL - The Best Place to Work in the country, because I truly feel that BPCians deserve the Best!

All of you are going to be the 'change agents' in this 'time for transformation' and my purpose will be to partner with you in your journey of transformation and make you feel confident to accomplish the organisation's as well as your aspirations. While you work towards 'Energising a Billion Lives' my objective will be to think of and work towards what energises you and makes you feel secure, valued, and assured of being able to do great things. I wish that while you become part of organisation's growth journey, you develop and grow as individuals with your own brand equity.

A healthy mind resides in a healthy body and there are no better means to achieve this than sports. As we move forward together, you would find me constantly encouraging you to invest in yourself a little more, pursue interests and activities beyond routine work so that we have a truly energised workforce in the real sense of the word.

I seek divine grace and your support in helping me accomplish my purpose. I very much look forward to interacting with all of you and understanding as to how we can partner in creating a wonderful journey for you in BPCL & for BPCL!

Raj Kumar Dubey



# If we can dream it, we can do it

Dear Colleagues,

At the outset, let me congratulate you on the spectacular performance in 2022-23. The exciting financial and physical performance results for the year are indeed a benchmark to begin a new journey with and it is a privilege for me to take over from a great legacy of leaders who have transformed Kochi Refinery into a centre of excellence, reliability and profitability.

In 2022-23, we achieved the highest ever GRM of Rs.14587 crs (\$15.57) and NRM of Rs.10163 crs (\$10.85) respectively and we recorded the lowest ever MBN and EII of 63.9 and 88.1 respectively. Riding high on the refining margins, BPCL has also posted a standalone profit after tax of Rs.6,478 crs. Bagging as many as 12 awards in prominent areas like energy efficiency and refinery performance improvement (CHT), water sustainability, Petrochemicals, Safety, manufacturing competitiveness and innovative HR initiatives is also a great record for us.

At the recent Annual Business Meet of Kochi Refinery, we had co-created our vision for the way ahead. Our focus being steadfast on *Net Zero, 100% Efficiency, Environment Positivity and Safety First*.

**Energy Optimization** is very critical for us and we are striving continuously to reach Quartile 1 of the Solomon Benchmarking. As per the first cycle of the Solomon Benchmarking Study in 2020, the Energy Intensity Index (EII) we had was 96, which is of Quartile 3 of the Solomon Benchmarking. We have improved that to 88.1. The analysis is done every two years., and we are currently awaiting the results of the 2022 study.

By implementing various energy saving initiatives and Schemes over the last 3 years, we have saved 111473 MTOE of fuel. This has not only led to reduction in fuel consumption, but also a corresponding increase in production, thereby reducing the imported crude requirement. We have also taken up several critical projects in the Hon PM's LiFE mission for Net Zero Emission, Waste to Energy and Waste Valorisation.

**Petrochemicals** and Renewable energy are the strategic areas for BPCL aligned with the national priorities of Energy Security and Sustainability. With our fully operational Petrochemical Units and a new one coming up in Bina Refinery, BPCL will be a force to reckon with in the Petrochemical scene. Likewise, the new Polypropylene Project is under approval stage and the implementation of this Project at Kochi Refinery will make available various grade of Polypropylene for more downstream industries in this area.

Our **safety** standards, the most impeccable one in the industry, is very precious to us and we are aware we cannot compromise that on any grounds. We crossed the 79 Million accident free man hours recently and we clearly know that we have a bigger responsibility vested in us when it comes to the safety of every individual, be it an employee, trainee or contract worker. Let us uphold the mantra of *Safety First, Safety Must*. Our promising Green initiatives and the commitments to our society are also to be rendered in full faith and conviction.

My congratulations to the **strategic HR** initiatives the Refinery is focusing on for nurturing a sense of belonging and pride. We are opening up more learning opportunities to equip Refiners to be masters in their respective areas and contribute confidently at work. Basis the competence mapping, we are rolling out tailor made programmes at various levels. Please ensure that you grab your opportunity to learn, as learning is always big way to earning rewards.

Let me conclude with thanks to the members of your family also who support you in contributing so much for your company. I urge all of you to remain safe and motivated at all times.

Steering the Refinery through the dynamic years ahead, will be an exciting challenge. It has indeed been a journey of several thousand miles for Kochi Refinery, each built step by step with love and care. I sincerely look forward to the goodwill and support from the entire team for taking our Refinery to greater new heights, for we know that **if we can dream it, we can do it**.

Best Wishes,  
Abhai Raj Singh Bhandari

The exciting financial and physical performance results for the year are indeed a benchmark to begin a new journey with and it is a privilege for me to take over from a great legacy of leaders who have transformed Kochi Refinery into a Centre of Excellence, Reliability and Profitability.

**ABHAI RAJ SINGH  
BHANDARI**  
EXECUTIVE DIRECTOR (KR)



## MEMOIRS FROM AAROHAN

Team Kochi Refinery receives the Award from C&MD

'Aarohan' – The Bharat Petroleum Refineries Meet, in Goa on 12th & 13th May 2023 brought together the diaspora of BPCL leaders into an open dialogue under one roof, to discuss and develop, possible strategies for strengthening collaboration and promoting the synergy between Marketing and Refineries. The event's theme, "Scaling New Heights," set the tone for the engaging discussions and presentations that followed.

Chairman & Managing Director Shri G Krishnakumar shared his vision for the future of our company. He underscored the importance of innovation, collaboration, and sustainable practices in driving our growth and success. The event also featured thought-provoking panel discussions, informative presentations, and networking opportunities, ensuring that attendees had ample opportunities to share their expertise and gain valuable insights.

Creative talents of our BPCL Group of Refineries, who demonstrated core values of BPCL and delivered top notch work during the financial year 2022-23 were also recognised and honoured. Kochi Refinery brought home 3 group awards and 1 individual award this year. The overall trophy went Bina Refinery this year.

## "PIONEER IN DIGITAL INITIATIVES AWARD" TO KOCHI REFINERY

In the quest to enhance Processes Optimization, Reliability and Productivity, BPCL Group Refineries have boosted their Digital Maturity through implementation of various digital initiatives. KPIs in the current evaluation were categorised into 3 areas namely - Advanced Process Control, Digital initiatives with emphasis on value generated & replicability, and Innovation. The award presents an opportunity to bring to the fore such digital initiatives which also help the corporation in fulfilling the 'Digital India' vision. Team Kochi Refinery led by Mr. Ajith Kumar K, ED I/c (KR) received the *Pioneer in Digital Initiatives Award* from Chairman & Managing Director Mr. G Krishnakumar.

The award for *Best Performance in Value Maximisation* aims at recognizing the refinery that generated maximum value with innovative process schemes & initiatives, with nil or least quality give away and making the products first time right. Furthermore, the schemes were evaluated based on overall monetary value generation from the scheme, involvement of internal resources in conceptualisation, design and implementation, use of digital tools for design, implementation & sustenance of the initiative, replicability of idea in other refineries and originality of the idea. These diverse KPIs enabled equal opportunity for comparing schemes among three refineries for overall improvement. Team Kochi Refinery Led by Mr. Ajith Kumar K, ED I/c (KR) along with Mr. Chacko M Jose, former CGMI/c (Ops), KR and current ED (BR) received the award from Director (Finance) Mr. Vetsa Ramakrishna Gupta.

## KR BAGS BEST PERFORMANCE IN VALUE MAXIMIZATION'



Team KR receives the Award from Director (Finance)



Team Kochi Refinery receives the Award from Director (Finance)

## BEST PERFORMANCE IN ENVIRONMENTAL PARAMETERS

This award is instituted for encouraging & emphasising best-in-class performance in environmental engineering, monitoring, sustainability, and commitment to society. This award has been introduced from this year onwards since the Environment KRA is critical for long term sustainability. It recognises best practices and/or programs that reduce water consumption, flare loss, slop / off spec and greenhouse gas generation waste and go the extra mile to encourage reuse & recycling of hazardous waste. This award instituted at the refinery level encourages refiners to do their best and demonstrate social responsibility at large. Team Kochi Refinery led by Mr. Ajith Kumar K, ED I/c (KR) and Mr. Chacko M Jose ED(BR) received the award from Director (Finance) Mr. Vetsa Ramakrishna Gupta.



Aravind R, Manager (E&C) receives the recognition for the Best Performer in Kochi Refinery from Director (Refineries) Mr. Sanjay Khanna

**Bina Refinery** bagged the Overall Best Refinery Award this year and received the following accolades:

- 'Best Performance in Health, Safety, Security & Environment (HSSE)' Award
- Contribution towards Profitability Award
- Best Performance in Cost Reduction Award
- Best Performance towards enhancing Reliability' Award
- Best in Housekeeping' - Swachhata Award

**Mumbai Refinery** received the awards for the following:

- Best Performance towards reducing Energy Intensity Index' Award
- Best Performance towards reducing Personnel Efficiency Index' Award
- Best Performance in managing Procurement' Award

'Overall Best Refinery' Award presented to team Bina Refinery led by Mr. Abhai Raj Singh Bhandari, former ED(BR) & current ED(KR)) and Mr. Chacko M Jose, ED (BR). The overall best performing refinery is the refinery that has bagged maximum number of awards out of the total 11 categories of awards. Kochi Refinery was the recipient of this award at the previous Bharat Petroleum Refineries Conclave.





## CPA BUSINESS AWARD FOR BPCL

Bharat Petroleum Corporation Limited received the Cochin Port Authority TOP Business award for HIGHEST CARGO HANDLED during FY 2022-23 as Kochi Refinery handled almost 15.5 MMT of crude oil and 3 MMT of product during the period. Dr. M Beena IAS, Chairperson, Cochin Port Authority presented the award to Mr. Suresh John, Chief General Manager (RPO) Kochi Refinery, Mr. Shukla SK, General Manager (Oil Movements & Stock) and Mr. Anand R, Chief Manager (OM&S)- Marine Planning and Operations. The award instituted by Cochin Port Authority was presented during the Port Day Celebration on 26 May 2023, to commemorate the berthing of first tanker in Cochin Port, 95 years ago on the same day.

## CASE STUDY ON FIRST TURNAROUND OF THE KOCHI REFINERY IREP UNITS RELEASED

After the completion of the mammoth Turnaround, Kochi Refinery has also developed a Case Study on the First Turnaround of the IREP Units of Kochi Refinery. Shri Ajith Kumar K, Executive Director I/c (Kochi Refinery) released the book by handing over the first copy to Shri Sanjay Khanna, Director (Refineries) in the presence of Shri Abhai Raj Singh Bhandari, Executive Director (Kochi Refinery) at the Management Committee Meeting on 31 May 2023.

Director (Refineries) congratulated team KR once again on the milestone achievements and expressed that the book will be beneficial for the group Refineries of BPCL in formulating turnaround strategies in future. "The IREP turnaround is the biggest and the first of its kind in any PSU refinery which was delivered in the shortest time, saving cost and ensuring safety and reliability. This Case Study will be a valuable reference for anyone who wants to complete a very complex job in a short time," said Shri Ajith Kumar, who has been an expert in Turnaround Managements all through.

Led by Smt. Sarah Thomas, CGM (HR), the Case Study was jointly developed by the L&D Team and the Turnaround Management (TAM) Team. Shri. Sathyan V, CEO (SDI), Kochi, who was earlier General Manager (TAM) coordinated from the Turnaround Team end and Shri Mohan Varkey, CM(L&D) coordinated from HR. The case study captures the innovative strategies adopted during the turnaround, the special infrastructure facilities and innovative HR support both inside and outside the Refinery, which were all turning points to achieving the acute targets. The formation of block level teams (BLTs), usage of drones for monitoring safety violations, various surprises faced during the shutdown and how it was overcome, all form part of this case study.

The structure of the case study was developed by a professional case writer, who interviewed all block level team leads, department heads and mentors. This was reviewed and suitable modifications made to develop the case study in the present form. The Case Study will soon be made available at the Libraries of the three Refineries of BPCL.





## SPECIAL REPORT

## SOUR WATER FILTER &amp; COALESCER FOR DCU

**Kochi Refinery takes a major step towards recovery of valuable hydrocarbons while simultaneously decreasing air & water pollution by installing & commissioning the Sour Water Filter & Coalescer project at the Delayed Coker Unit**

Kochi Refinery has taken a major step towards recovery of valuable hydrocarbons while simultaneously decreasing air and water pollution by installing and commissioning the Sour Water Filter & Coalescer project at the Delayed Coker Unit (DCU). This initiative was launched by Mr. Ajith Kumar, then ED-I/c, KR in the presence of Mr. Abhai Singh Bhandari, ED(KR), Mr. S. Sriram, CGM(E&AS), Mr. M Sankar, CGM I/c (Ops), Mr. G.R. Senthilkumar, CGM (Tech) Mr. K. Rajasekhar, CGM (Inspection) and Mr. K K Das, CGM(Mfg). Other management committee members and respective team members from E&C, PE and Mfg were also present.

In the DCU, sour water is generated from main fractionator top and from blow down tower during steam out and cooling of coke drum to blow-down tower. This sour water contains emulsified oil which does not get separated by gravity. It was determined that the oil content in sour water is in the range of 1800 – 3000ppmw. This represents a loss of 3 – 5 TPD of oil being lost to sour water. DCU Sour water (having some oil content) is routed to Sour Water stripper System (SWS1), which is designed to handle maximum of 500ppmw of oil in sour water. Presence of oil in sour water leads to fouling of the bottom reboilers of SWS. Due to this reason, SWS is not able to remove all the contaminants in water and the Stripped Sour water is partially routed to ETP. Since contaminants in stripped water is high, it leads to higher chemical oxygen demand (COD).

Processing of this stripped vapour significantly increases the oxygen demand of SRU main burner since oil content in the gas is beyond the design HC processing capacity of the burners. Processing these vapour leads to fluctuation in air demand analysers in SRU. Increased concentration of combustion product, CO<sub>2</sub>, also interferes with hydrogenation reaction in TGTU and causes SO<sub>2</sub> slippage and colour issue in sulphur. Hence SRU is not able to handle such a high hydrocarbon quantity in sour gas, and as a result this material is currently being flared. Based on the effectiveness of coalescer in separating this oil it is proposed to provide a coalescer system to recover the emulsified oil in Delayed Coker Unit sour water.

With this initiative, around 2-3 TPD oil from the sour water would be recovered, before routing it to SRU. Around 3.2 Cr per annum is expected to be saved on this account alone. Additionally, elimination of HC in sour gas in SRU reduces the & reduction of contaminants in stripped water leads to the reduction in chemical oxygen demand (COD) of drained water to ETP. Both these have a significant positive impact on the environment.

The job was conceived by the KR Process Technology Dept and executed by the Engineering & Construction Dept (E&C) well within the scheduled completion period with the support of Manufacturing and CPO(Refineries). The purchase order for the skid was placed on M/s Pall India Corporation. Piping jobs were carried out in parallel at site. Hook ups for the scheme were completed during the IREP TA. Subsequently the skid was commissioned by May2023. The total cost of the project was around Rs.6.0 crore.





**SPECIAL REPORT**

## COASTAL INFRASTRUCTURE PROJECT UPDATE

**BPCL is betting big on expanding its market beyond domestic customers and Kochi Refinery is being spotlighted to hold the torch for this expansion.**

**With KR's ability to swing between MS and HSD production based on demands, BPCL is transforming KR to an "Export Hub" of petroleum products.**

**With the aim of improving product evacuation from Kochi Refinery, phased augmentation of existing coastal infrastructure facilities is in progress.**

BPCL is betting big on expanding its market beyond domestic customers and Kochi Refinery is being spotlighted to hold the torch for this expansion. With KR's ability to swing between MS and HSD production based on demands, BPCL is transforming KR to an "Export Hub" of petroleum products. With the aim of improving product evacuation from Kochi Refinery, phased augmentation of existing coastal infrastructure facilities is being carried out by Projects Dept.

As part of this, existing 20" HTPL line from KR to North Jetty Reclamation Pit (NJRP) in Cochin Port which was previously under Black oil service, was proposed to be converted into white oil service and extended further to North Tanker Berth (NTB) and Cochin Oil Terminal (COT) in phased manner.

Accordingly, conversion of the existing line to white oil service and extension of the 20" pipeline to NTB was completed on 26-Nov-2022 well ahead of the schedule. This pipeline was inaugurated jointly by Shri. Ajith Kumar K (ED- KR) and Shri Ghalasasi R R (ED-CRPO) on 15-December-2022. Same day first Naphtha parcel was loaded in MT Maria Glory.

The most challenging part of the project is the next phase- extension of 20" from NJRP to COT. This phase consisted of laying approximately 1 km long subsea line pipe across the backwaters from NJRP to Sandbank Island located 1 km away from the shore in backwaters using Horizontal Directional Drilling (HDD) technique and further extend the line from Island to COT thru existing pipe Trestle. The greatest challenge involved in this phase is development of the Sandbank Island for carrying out HDD activity. Development of Sandbank Island commenced after receiving MOEFCC clearance on 23-03-2023.

### **Development of Sandbank Island: -**

Sandbank Island is the punch-in point for the Line pipe. All fabrication activities, stringing, testing, and pulling of the Line pipe starts from Sandbank Island. Developmental activities consisted of construction of temporary jetty for movement of materials and manpower, site grading with approx. 2500 cub.m of dredged sand for developing area for storing, fabrication and laying of line pipe, stringing of pipes into sections, pre-hydrotesting, for placing HDD string pulling equipment, final hydrotesting, carrying out Non-Destructive testing and pigging operations. Coconut piling was carried out for construction of temporary jetty. However, development of the island with 2500 cum of dredged sand was a challenging task as approach of barges was affected by the low tide and continuous marine traffic. But the Projects team took this challenge and completed the development of Sandbank Island by 20-04-2023.



Temporary Jetty Construction using coconut piles.



Development of Sandbank Island using dredged sand.



Fabrication and Welding of pipe into sections.



HDD Rigging machine placed on developed area in NJRP.



Pooja before commencement of HDD Pilot Drilling

**Transportation, fabrication and Stringing of 1km long Line Pipe.**

20” diameter 3LPE coated pipes, each 12 m long, were transported from shore to Sandbank island using pipe barge though the backwaters. The transported pipes were then prepared for welding into sections. The welded sections were ultrasound tested for any defect. Once the sections are ready, they were pre-hydrated before welding into strings and are then floated in water. Here it is isolated in 2 strings of 480 m each due to limitation to go beyond 500m in the backwaters.

**Development of NJRP and Rajendra Maidan for position of HDD rig and Accessories.**

NJRP area and adjacent space from Rajendra Maidan was developed for placing the HDD rigging machine and its accessories such mud filtration unit, mud pump, control, and monitoring system.

**HORIZONTAL DIRECTION DRILLING (HDD) TECHNOLOGY**

Horizontal directional drilling (HDD) is a trenchless construction method used to install pipes underground or underwater body without disturbing the ground surface.

It involves the use of a directional drilling machine, and associated attachments, to accurately drill along the chosen bore path and back ream the required pipe. HDD is a trenchless process.

HDD is a three-stage process and is carried out from NJRP to Sandbank Island near to COT berth for laying 20” Line as part of extension of LAN line from NJRP.

1. Pilot Hole drilling.
2. Reaming Pass.
3. Pipe Pull Back.

At the deepest point, the HDD shall pass approx. 25 m below the sea level .

Beyond Sandbank Island, piping is carried out above ground thru pipe trestle.

HDD activities for the project started on 22-05-2023 with the commencement of 10” pilot hole drilling and is in progress. Meticulous planning and execution of the HDD activities is essential for successful completion of the project.

**Upon completion of the pilot drilling, reaming and pipe pull back will follow in sequence. The HDD activity is expected to be completed by 2nd week of June 2023.**

With inputs from:  
 Udheep Mukundan, M Prabhu &  
 George Simon KJ / Projects

# SAKSHAM 2023

Energy Conservation Towards 'Net Zero'

CALENDAR OF EVENTS AT KOCHI REFINERY

1

**INAUGURATION : 24 APRIL 2023**

- Inauguration and Pledge taking ceremony at KR Admin Block and all Control Rooms

**RADIO PROGRAMMES : 24 APRIL 2023 ONWARDS**

- Saksham Messages, quizzes and advertisements on FM Kochi (Rainbow 107.5 & Air Kochi FM 102.3) from 24 April to 08 May 2023

2

3

**ENERGY QUIZ (PRELIM : ONLINE) 26 TO 30 APRIL 2023**

- Energy Quiz (PRELIMS online) 26 to 30 April 23
- **Finals : 2 May 2023**

**CREATIVE CONTESTS : 26 APRIL TO 01 MAY 2023**

- Photography & Graphics competition
- Display for Public Poll & Evaluation - 2 May 2023
- Announcement of Prizes : 5 May 2023

4

5

**VOCABULARY CONTESTS : 26 APRIL TO 4 MAY 2023**

- Energy Crossword
- Slogan Competition
- Announcement of Prizes : 5 May 2023

**THEMATIC CONTESTS : 27 APRIL 2023**

- Essay writing (English, Malayalam and Hindi)
- Announcement of Prizes : 5 May 2023

6

7

**WORKSHOP : 27 APRIL 2023**

- Workshop on e- Vehicles and renewable energy

**WEBINAR : 28 APRIL 2023**

- Webinar on the efficient operation of Fired heaters / Boilers

8

9

**EXPERT SESSIONS : 3 MAY 2023**

- Talk by Expert on 'Net Zero'

**CLOSING CEREMONY : 8 MAY 2023**

- Saksham - 2023 closing ceremony
- ED's Award for best-performing unit in Energy conservation

10

SWITCH TO  
CNG / PNG / LNG

ADOPT  
CLEAN  
FUELS

EMBRACE  
BIOFUELS

HYDROGEN  
FUEL FOR  
FUTURE

DE-CARBONIZE  
MOBILITY

## THE CAMPAIGN AT KR

SAKSHAM, the annual flagship event of PCRA is held to sensitize citizens about the need for fuel conservation for health and environmental protection, as well as to help India reduce its reliance on crude oil imports. The theme of the fortnight, from 24 April 2023 to 08 May 2023, this year was "Energy Conservation towards Net Zero".

The Energy team led by Mr.Senthikumar GR, CGM(Technology) curated a diverse range of events and competitions to ensure maximum participation and engagement. By offering a variety of opportunities, they aimed to cater to different interests and encourage wider involvement. In line with the modern digital landscape, the energy team in association with the IS team leveraged various digital tools to enhance the reach and impact of the Saksham 2023 celebrations.

Visual communication played a significant role in capturing attention and spreading key messages during the Saksham 2023 celebration. With the support of the KR Brand team, communications were planned and banners, standees, and backdrops were strategically placed across the refinery premises to create a visually immersive environment. To amplify the impact of the celebrations, the energy team collaborated closely with energy champions within the organization. These champions served as ambassadors for energy conservation and played a vital role in promoting awareness sessions, encouraging participation, and fostering a culture of sustainable practices among their peers. Awareness sessions held during the celebration were designed to educate and inspire participants to adopt energy-efficient practices.

The Saksham 2023 was inaugurated by Mr.Ajith Kumar K, Executive Director In-charge KR, marking the beginning of the Oil and Gas Conservation Fortnight celebration. ED I/C KR delivered the inaugural address. ED KR, Mr Abhay Singh Bhandari administered the pledge in Hindi and CGM I/C Ops Mr M Sankar, administered the pledge in English.

In addition to industry professionals, the event also reached out to the wider public. Awareness campaigns were conducted to educate consumers about the importance of responsible energy consumption in their daily lives. Various interactive activities, competitions, and quizzes were organized to engage and motivate individuals to adopt energy-efficient practices in the Refinery as well as on Radio channels Kochi FM (102.3) & FM Rainbow (107.5). Kochi Refinery arranged a two-week-long promotional campaign through All India Radio to increase awareness of Oil & Gas Conversion Month (OGCM) in Kerala. Various spots of short duration were telecast throughout the day. Morning and evening shows had been timed to match office commute timings. A fortnight-long quiz competition also ran on AIR and attractive prizes were distributed to winners at the conclusion.

To promote the use of green energy and to create a cleaner environment various technical sessions cum workshops and an online Energy Quiz was also organised. Mr. V Harinath, DGM(IT) was the quiz master for the finals. Photography and Graphic design contests were also organised for employees and family members. This was in addition to essay, slogan and crossword contests. Dr Jayaraman C, a distinguished energy management expert, was Chief Guest for the Saksham 2023 valedictory ceremony. With his extensive knowledge and accomplishments in the field, including receiving a state award from the Kerala government, he brought valuable insights and inspiration to the forum. Mr. AjithKumar K ED I/C KR, Mr. Abhaysingh Bhandari ED KR, Mr. Sankar M CGM (Ops), Mr. Rajashekhar (CGM Inspection), Mr. Das KK CGM (Mfg), Mr. Ramachandran MK (GM I/C HSE), Mr. Mathew P Thomas GM I/C (P&U), Mr. Sampath Kumar GM (E&C) graced the ceremony and distributed the prizes.



CONGRATS ON CROSSING YOUR CAREER MILESTONES

30 years



MONIKANDAN S  
CPO-KR



MAHENDIRAN A  
PETCHEM

25 years



THULASIDAS N  
CPO-KR



KAVITHA MATHEW  
HR - L&D

15 years



VINOD T R  
MFG



DILISH KUMAR S  
MFG



SUDEESH S BABU  
PETCHEM



BIJO GEORGE  
MFG



PRAMOD KR  
MFG



SLEEBA Y  
MANNALIL/ MFG



ANOOP S  
MFG



SIBIN K G  
MFG



AJEESH C A  
MFG



ANSAR P M  
MFG



SUNILKUMAR T P  
MFG



SHANKUMAR KR  
MFG



SREEKUMAR N  
MFG



VIJAY P JOY  
MFG



SURAJ V R  
MFG



DHANISHBABU  
P M / MFG



RENNY VARGHESE  
MFG



PRAVEEN KUMAR  
CK / MFG



JOICE VARGHESE  
MFG



NISHAD BALAN  
MFG



SUJITH P S  
MFG



SANJU SREEDHAR  
MFG



LETHEESH  
THOMAS / MFG



SHAINESH G U  
MFG



ANTONY  
VARGHESE / MFG



BIBIN VARGHESE  
MFG



SAJITH  
NARAYANAN / MFG



ARUN AG  
PETCHEM



DEVIPRASAD U  
MFG



JINISH K G  
MFG



MANEESH V  
SUBHASH / MFG



SREEKANTH V N  
PETCHEM



SHIBU E R  
OM&S



ASHWANI MOHAN  
P&U



ANTONY SANJEEV  
MAINT



Happy Birthday



COME WISH KOCHIREFINERS CELEBRATING THEIR SPECIAL DAY IN JUNE 2023. LOG ON TO KOCHI REFINERY [YOU-TUBE](#) CHANNEL TO VIEW THE TEAM MEMBERS CELEBRATING THEIR BIRTHDAY THIS MONTH .



## CONGRATS ON CROSSING YOUR CAREER MILESTONES

15 years



LEEMESH PD  
P&U



ANOOP ISSAC  
P&U



LALU P K  
P&U



TABIN A C  
P&U



BIJUMON B  
OM&S



GIRESH D  
P&U



SRIJITH K J  
P&U



RAMASAMY P  
OM&S



PADMAJ R P  
MFG



ALEX BABY  
P&U



SHAJI A  
OM&S



SANU G NAIR  
P&U



JUSTIN K P  
OM&S



KRISHNADAS E  
P&U



GIRESH  
SALIGRAMATH/ P&U



BIJESH M D  
MAINT



PARTHASARATHY  
CM / P&U



LORANCE AA  
MAINT



SAJU A R  
MFG



DERFIN D K  
OM&S



RATHEESH K  
RAMU / MAINT



BINUMON B  
P&U



RAFEEK P M  
MAINT



SATHEESH A  
MFG



REJI JACOB  
P&U



PRASANTH U V  
MAINT



RENJITH K G  
P&U



MANOJ B  
MAINT



MAJOSH AM  
PETCHEM



RETHEESH R  
MAINT



ARUN KR  
P&U



JOMET K JOY  
P&U



**AJITH KUMAR K**  
**FORMER ED (I/C -KR)**

# अलविदा

## FAREWELL



Dear Colleagues,

When I joined Kochi Refinery as a young Engineer, I had many dreams and down the years, the confidence grew to dream bigger. I learnt from my dynamic mentors that our destiny depends with what one makes out of the opportunities that come to us. To seize those opportunities, one needs to look at them with an innovative perspective and deadly desire to achieve the impossible. With deep gratitude, as I step down from service, I salute my mentors who dared me to dream and to deliver.

It has been a privilege to serve Bharat Petroleum, one of the finest companies in the Petroleum Industry and I bow with immense gratitude to the Almighty for blessing me with more than an enriching career in Kochi Refinery. I am grateful that I could contribute in so many ways from a young Inspection and Safety engineer to the Head of the Refinery.

Every single day of my 36 years, remains etched in my heart. Every shutdown, every revamp and every column that I had the opportunity to inspect and then maintain, reminds me of the daring challenges we faced as a team. With the confidence of working in Inspection and Maintenance, the execution of projects from CEMP Phase-1 to IREP, then MSBP and further the stabilisation of the PDPP, seemed comfortable tasks.

It was a great joy to take over the mantle of Executive Director (Kochi Refinery). For, from this office, there is a new way of looking at things and also at appreciating the immense support received from all quarters for taking the Refinery forward. The remarkable GRM performance by the Refineries in 2022-23 and the timely completion of IREP shutdown with the tag line Safety, Reliability, Time bound, Cost Effective(SRTC) are in-fact the golden feathers on the cap. Once again I would like to dedicate all the awards and recognitions that we received, to the unbreakable team-spirit of Kochi Refinery, a jewel par brilliance of Bharat Petroleum.

I thank my leaders and teammates who made this journey with a great organisation, so exciting and meaningful. My sincere thanks to the members of the BPCL Board for the encouragement and the confidence they had in team Kochi Refinery. I would also like to remember the exquisite support received from BPCL Business Units and various stakeholders of the Government, in the best interest of the mission and goals of our Company. My family joins me in wishing each one of you great success, peace and happiness in the years to come.

I know, it will be different to watch BPCL flourish from the outside. But from within, the love is what makes all the difference. I wish each one of you that continued love for your company, from wherever you are.

Best wishes ,  
Ajith.





## BEST WISHES TO FORMER ED (KR)

A passionate professional, a loyal family man and a loving father, Ajith Kumar K, former Executive Director I/c (Kochi Refinery) bids adieu after a three decade plus service in the Petroleum Industry. He is well-known as the mastermind of many path-breaking turnarounds in Kochi Refinery. He has the deadly charm of looking at things differently and is master class, when it comes to resolving any issues in the deepest insides of the tallest vessels and columns of the Refinery.

Ajith hails from Ullala, an agrarian village in the temple town of Vaikom in Kottayam District of Kerala. His father Shri V M Kuttapan Pillai was a prominent Social worker and his mother Smt M T Sharaddamma, was a teacher. After his B Tech Engineering in Mechanical stream at the Govt Engineering College, Thrissur (1981-85) and a brief stint in Hyderabad, he joined erstwhile Cochin Refineries Limited. The Inspection and Safety Department, as it was called back then, gave him the opportunity to know the Refinery and its operations in very close quarters. Post his decade plus in Inspection, he moved on to the Execution side where he gained rich experience in Maintenance and Project Execution.

Over the years, he was increasingly gaining credibility as a trouble shooter, whatever be the range or size of the issue. He knew the Refinery like the lines on his palm. He also worked briefly in Kuwait National Petroleum Corporation and Bina Refinery.

During the prestigious Integrated Refinery Expansion Project of Kochi Refinery, he was hand-picked for leading the construction of the PFCCU, as he was a specialist in FCCU Turnarounds. Post the IREP, he was also entrusted with the responsibility to implement specific Maintenance systems for the new IREP Units. He then went on to lead the Motor Spirit Block Project (MSBP) through the unforeseen and most challenging times of the Covid 19 pandemic.

After he assumed charge as the Executive Director of Kochi Refinery in December 2021, he cast a special charm over the Refinery. He spearheaded the operational stabilization of Petchem and processing of new Russian Crudes. He revived many of the employee engagement initiatives and infra-development at Kochi Refinery, which had taken a back seat during the COVID. Under his leadership, Kochi Refinery completed the largest turnaround ever of the IREP units, a golden milestone in the history of any PSU Refinery.

Ajith's passion for excellence, is deeply rooted in the commitment to his company and his team and KR can proudly boast of the slew of awards, including recognitions from Ministry of Petroleum & Natural Gas and BPCL for the Best Performance during his tenure.

A family man to the core, Shri Ajith and his wife Sayini are blessed with two sons. Akhil, the elder one, is an Engineer working in US and Tushar has just completed his Engineering studies. Akhil was recently betrothed to Dr. Tejaswini and they are expected to tie the knot soon.

His humility has always been his strength. As Ajith takes with him great memories as a professional and also his amazing friendships, gained along his 36 plus years in the Industry, JwalaDhwani wishes him and his family happiness, peace and good health.

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**Phone :** 9895227898 , 0484-2776725 **Email :** ajithkr15223@gmail. com

## EXCELLENT EXPERIENCE SAYS SENGOTTAIYAN



“Kochi Refinery has given me everything which I wanted in my life, like trainings including foreign ones, management education in a top-class institute IIM and above all, every team member in the area I worked had given me their fullest cooperation and knowledge /skill , to learn and get experienced. I’m ever grateful for the health care extended at times of critical nature and supported in all means including personal means,” shared **Sengottaiyan P** who joined the Manufacturing Department in 1989 and is superannuating this month as Deputy General Manager (Energy) from the Process Technology Department.

“I was fortunate to be part of many innovative oil recovery schemes in offsites and also plants implemented. We implemented a system of Energy Management Cell (EMC) in KR which was a first in the refining sector. I could also contribute in a lead role in an on-line blending reconfiguration project and was a member of many other committees.” he added. Sengottaiyan is married to Vanitha. Their son Somesh Bharati is in the 12th Standard at CR School. “It has been an excellent experience all round with Kochi Refinery. For the future ahead, I want to help my son with his studies and also indulge in many things I could not earlier address fully,” he shared. After a very satisfying career, he is all set to bid goodbye with immense gratitude to his seniors and colleagues. *JwalaDhwani* wishes Sengottaiyan and his family good health and peace in the days ahead.

**Address :** 7/15, Subash Nagar, Thiruvamkulam, Ernakulam.

**Mob:** 9447503200 **Email :** pskrl@yahoo.comt

## SURESH KP SAYS GOODBYE

**Suresh KP** joined in 1984 in the Stock and Oil Movement Dept and is happy to have been part of the transformation and growth of the Refinery from CRL to BPCL KR. He takes home happy memories of commissioning of CEMP/DHDS units and particularly the commissioning of the VGO reactors. The huge vessel was supplied by Chinese Petroleum Corporation and internals were supplied by WFT, Japan. So, coordinating with two different nationals Dubin du of China and Tikashi Yashino of Japan, with all the language barriers was a memorable experience for Suresh.

“I thank my company for the unconditional medical support during my heart treatment in 1993 and all the support thereafter for me and my family.” Suresh is married to Ambiliy, a homemaker who loves ornamental gardening and crafting. Their daughter, Dr. Greeshma Suresh, is an officer in Kerala State Agricultural Bank. She is married to Deepak K P, a Software Engineer with Ernst & Young. The son, Adith Suresh, is an Engineer and young entrepreneur. Suresh is retiring happily from the P&U Department – Utilities and looks forward to travelling more with his family. *JwalaDhwani* wishes him peace, good health and happiness.

**Address:** Greeshmam Nila , House Ni.59, Irumpanam PO, Thripunithura, Ernakulam, Kerala.

**Phone :** 0484 2781180/9847344269 **Email :** KPS1332@gamil.com



## SUPERANNUATION

**BEST WISHES TO  
OUR COLLEAGUES  
SUPERANNUATING  
THIS MONTH**



**LANIL M**  
joined the Maintenance Dept in 1989 and is retiring from the same Dept this month



**SHAJI P STEPHEN**  
joined the Manufacturing Department in 1996 and is retiring from the same department this month.



**SIVAKUMAR K V**  
joined the QC Lab in 1987 and is retiring from OM&S department this month



**THOMAS V M**  
joined the Technical Services department in 1989 and is retiring from AS-Inspection this month.



## SASIDHARAN BIDS ADIEU

With a Diploma in Electrical Engineering in 1983 from Carmel Polytechnic, Alappuzha , **Sasidharan K** joined erstwhile CRL on in April 1984 as a Refinery trainee and was absorbed in December 1984 as General Workman-B.

In June 2001 he was promoted as Electrical Engineer. He took his B-Tech in Electrical and Electronics Engineering in 2012 from Govt. Engineering College, Thrissur and is now retiring as Senior Manager (Electrical). "I could work in the all areas of KR including SWSS, STF, HR- Estate, IREP, DHDS and PDPP. My sincere gratitude to all my seniors, who were always supportive and with valuable guidance and advice, colleagues who were provided emotional support. I wish all colleagues the very best in their journey in BPCL in the years to come," he shares. Out of 39 years of service in KR, 7 years were in HR- Estate as Manager (Electrical) where he actively took part in the commissioning of PDPP-PDE plant and made remarkable contributions in several renovations and constructions of the offices, residential complexes and CR School.

Sasi's wife Sheela L retired from the Govt. Health Department as Stores Verification Officer (District) in 2021. They are blessed with two sons, Akhil S who completed his Masters in Literature, from the English and Foreign Language University, Hyderabad and is an English teacher in Greenwood Residential school at Warangal, Hyderabad. The younger one Nikhil S, is is graduating in Visual arts and Photography at Symbiosis International, Pune. Sasi, as he is fondly called, would like to travel and read all the books waiting for him in his personal library. He is also looking forward to acquiring an A-Class Electrical competency licence. JwalaDhwani wishes him the very best of life and happiness.

Address : Petropalace Apartment, Flat No:1B, Hill Palace Road, Chathari, Tripunithura-680 301. Mobile : 9446467848, E-mail: [ksdanjali@gmail.com](mailto:ksdanjali@gmail.com),

## GOPINATHAN OF CPO SAYS GOODBYE TOO

**Gopinathan M** joined the erstwhile Cochin Refineries Limited as Commercial Trainee in August 1988 and was absorbed in 1989 in the Materials Dept. Prior to that he was working as a Teacher in a Parallel College for a few months after completing Post Graduation in Commerce from MES Kalladi College, Mannarkkad. He hails from Elampulassery in Palakkad District, Kerala,

Gopinathan has served in all areas of Procurement and after completing 34 years he is retiring as Procurement Manager from the same department. "When I joined, it was a small department called Materials, now it is Central Procurement Organisation. There were only a few officers with a skeleton staff to operate the entire department. The entire procurement process was in manual mode. The refining capacity at that time was 4.5 MMTPA with FCCU. Along with the growth of Cochin Refineries Ltd to Kochi Refineries Ltd and now BPCL-KR, I have also grown," he shared.

With countless gratitude he remembers all the yesteryear stalwarts in the Materials Department who guided and supported him. "My friends in other departments also have helped me to learn many things related to Refinery. I am indebted to you all. My family and I thank the KR Canteen, Consumer Society, Credit Society, CR School and other support services staff for their support. I would also like to thank all my colleagues and seniors for helping me deliver my best at work. Gopinathan's colleagues and friends in the Department say "Gopi is always a clam and smiling gentleman, whose presence and smile will help one relieve their tension".



He is married to Praveena who is also from Palakkad district. They are blessed with two daughters, Aparna G Nath and Sneha G Nath. Aparna completed B Tech and MBA and presently working in Tata AIG as Sr. Mgr. (Energy Business). Sneha is doing her internship after BDS. JwalaDhwani wishes the family healthy and happy days ahead.

**Address** : Vysakham, HPNRA 37, Chitra Estate, Cochin Palace P.O. Tripunithura, 682301

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[mgnath2244@gmail.com](mailto:mgnath2244@gmail.com);



**WE NEED FOOD AND NOT TOBACCO**

**GROWING TOBACCO HARMS OUR HEALTH, THE HEALTH OF FARMERS AND THE HEALTH OF OUR PLANET AS WELL.  
SMOKING IS ABSOLUTELY INJURIOUS TO HEALTH**

Every year on 31st May, WHO and public health sectors around the world comes together to celebrate **WORLD NO TOBACCO DAY**. This year's theme is "we need food, not tobacco".

Growing tobacco harms our health, the health of farmers and the health of our planet as well. The tobacco industry's attempts to increase tobacco farming in fact leads to global food crisis. The campaign encourages governments to end tobacco growing subsidies and use the savings to support farmers to switch to more sustainable crops that improves food security and nutrition. This support efforts to combat desertification and environmental degradation by decreasing tobacco farming.

#### **Impact of tobacco farming on farmers:**

Tobacco farmer accounts for poor health among farmers- like green tobacco sickness, nicotine poisoning caused by nicotine absorbed through the skin from handling of tobacco leaves, chronic lung conditions. *Negative effects on environment* - heavy use of pesticides for growth of tobacco, land used for growing tobacco lowers capacity for growing other crops like food grains, total 5% Deforestations is done for framing of tobacco and this is also contributing to co2 emission and climate change.

**Why quit Tobacco?** : Tobacco in its various forms leads to oral health problems. Tobacco in smoked or smokeless form is prevalent in India and few other countries. Tobacco usage can cause various red and white lesions, premalignant lesions, oral cancers. It also causes gingival and periodontal diseases in oral cavity, and chronic lung conditions in smokers. Tobacco consumption is one of the major public health problems in the world. About 24% of adult population use tobacco as per data suggested by WHO and killing more than. 8 million people per year around the world.

**Oral effects of various forms of tobacco:** Smoking cigarette can cause adverse oral effect, including gingival recession, impaired healing following surgery, oral carcinoma, mucosal lesion, nicotine stomatitis, periodontal disease & premature tooth loss and tooth staining. Tobacco chewing also causes oral conditions like gingival keratosis, tooth discolouration, halitosis, enamel erosion, gingival recession, alveolar bone damage, periodontal (gum) disease, coronal and root surface dental caries due to sugar present in the chewable pan and tobacco. Smoking leads to gum diseases. Impaired blood flow to gums affects healing.

**Why seek help?** : Medical experts can help identify, cure and even cease the urge to use tobacco. Food choices can changes when teeth are lost and social interaction and confidence of patient will also be affected. In case of any precancerous lesions in mouth early diagnosis and prevention will help in avoiding large irreversible tissue loss and cancerous lesion.

**Oral self-care is very important** : Oral Hygiene habits must include brushing twice daily, interdental cleaning with flossing and mouth rinses. Habit quieting with medical professional help, Healthy lifestyle choices cessation of cigarette smoking and tobacco chewing, regular oral self-care and dental check-up every six months. Self -Diagnosis of any particular changes in mouth like white and red path and then seeking professional care.

Dr. Bindu Nitali,  
W/o Pratik Sambrani/ Process Engg

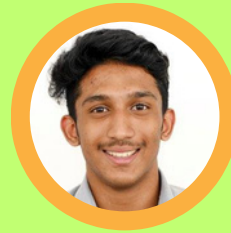
# FANTASTIC RESULTS FROM CRS AGAIN

CRS recorded fantastic results in CBSE 12 and CBSE 10 boards. In the SSCE (Std XII), out of 94 students who appeared for the examination 82 students secured distinction and 22 students secured A1 in all subjects. In the SSE (Std X), out of 80 students, 65 bagged distinction and 10 students secured A1 in all subjects.

Under the Std XII examination results, MANASA K (96.6 ), THEERTHA SUNIL (96.4 ) and GIRI V GOPAN (96.2 ) are the top performers in Science group while ADITHYAN K ABHILASH (99.2) , FEBA MARIA REGY (97.6) and SONA REJI (94.2) are the top performers in Commerce group.



## SSCE XII COMMERCE TOPPERS WITH FULL A1

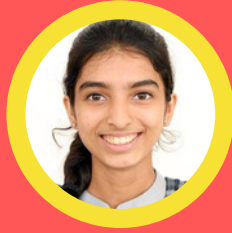


**Adithyan K  
Abhilash (99.2%)**



**Feba Maria  
Regy (97.6%)**

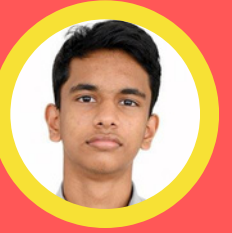
## SSCE XII SCIENCE TOPPERS



**Manasa K  
(96.6%)  
(Full A1)**

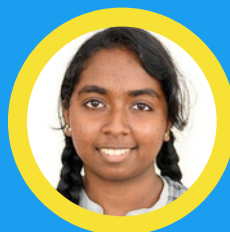


**Theertha Sunil  
(96.4%)  
(Full A1)**



**Giri V Gopan  
(96.2%)  
(Full A1)**

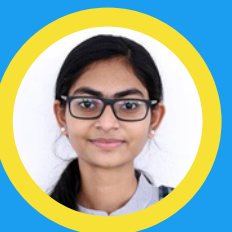
## SSCE XII SCIENCE : A1 IN ALL SUBJECTS



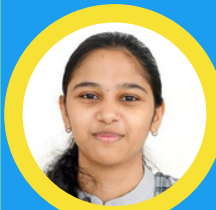
**B L Lavanya**



**Ann Biju**



**Aditya S**



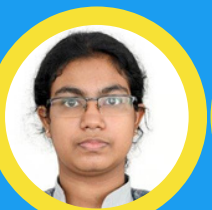
**Sanjana  
Induchoodan**



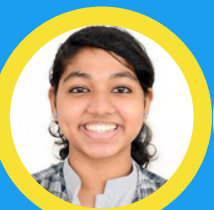
**Allan Mathew  
George**



**Aravind  
Chandran**



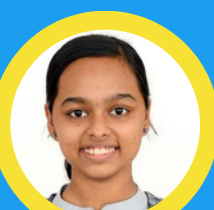
**Merin  
Johnson**



**Nandana  
Sajith**



**George John  
Panicker**



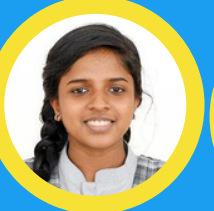
**Sreelakshmi N**



**Divya R**



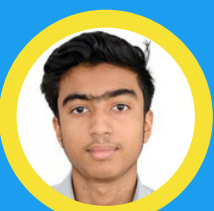
**Kasthuri  
Shravya**



**Vandana MS**



**Aleena Devassy**



**Issac Joseph**



**Mohammed  
Yasir T P**



**Neha S Paul**

## SSE 2023 Xth Toppers



**Manjary M Rajesh  
(98.6%)**



**Janaki Prasad  
(97.6%)**

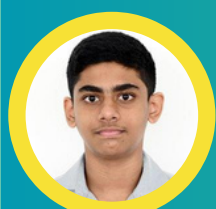


**CB Gayatri Kartha  
(97.6%)**



**Niveditha Ragesh  
(97.0%)**

**STD X  
A1 IN ALL  
SUBJECTS**



**Bharath Nishad**



**Nirupama V G**



**Juvan J Chacko**



**Lithun Krishan BL**



**Sreedevi N**



**Athira Subash**



पर्यावरण के लिए जीवन शैली

**LIFE**  
Lifestyle for  
Environment



एनरजाइजिंग लाइवज़

# WORLD ENVIRONMENT DAY

## Nature Photo Contest

- Open ONLY to KR employees and family members.
- Max entries per person 3 nos. Entries should have details of the picture and brief note about the photographer. Email your entries ( Max size 1MB) to sasipk@bharatpetroleum.in .
- Open up-to 20 June 2023.
- Prizes : 5000, 3000, 2000 and 1000 (consolation)
- More details on KR Broadcast and digital notice boards

5 JUNE 2023

*"Join millions around the world to #BeatPlasticPollution"*