

EDITORIAL

YEAR TO ACCELERATE

For a great company & a greater Nation

A new year has dawned with all its hopes and promises for us to make it a great one.

Our respected Chairman & Managing Director, Mr. Arun Kumar Singh has ushered the new year as the *Year of Acceleration*. He added, "let us hope that in spite of the Omicron uncertainties, the economy revives itself and this year turns to be one of recovery and renewal."

In a message to all Refiners, ED (Refineries) i/c Mr. Sanjay Khanna expressed, "As refiners, we have to focus all our efforts on the need of the hour, namely - Petrochemicals, Opex Reduction and Reliability Enhancement." We thus have our clear call to gear up for a super year of robust performance.

As a company we have always risen to the nation's call of resurgence and revival and never shied away from any distress call, be it the floods or the pandemic. We are committed to the service of a great company and a great Nation. That's our blessing.

JwalaDhwani is also gearing up for more in the New Year. We wish all readers of *JwalaDhwani* a very Happy New Year and hope all your dreams come true. May good health and fortune shine upon you throughout the year.

Please stay safe.

Warmly
Editor

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LOOK AHEAD WITH HOPE



Dear Colleagues,

A year which saw unprecedented challenges in all walks of our lives has passed by. Now we have stepped in to a year which the whole world is looking ahead with *Great Expectations*.

As we all experienced, Year 2021 was a crucial and challenging period for BPCL Kochi Refinery. We met the challenges of the pandemic head-on by sustaining refinery operations and commissioning two major projects. We fully commissioned all the units of Propylene Derivatives Petrochemical Project against all odds through Remote systems and presently we have all product stocks to meet the market demands.

It is a matter of great happiness that, the PDPP units were dedicated to the nation by none other than our Hon'ble Prime Minister Shri Narendra Modiji. He had then said that our PDPP Complex "will help strengthen our journey towards *Atmanirbhar Bharat*. I recall with pride the inspiring efforts put in by Team KR to make the PM Visit a memorable one.

By end of March, 2021 we had completed the commissioning of two units of MSBP ahead of schedule and the last unit became fully operational on 18 June. Within one month of the final commissioning of all plants, production from the unit exceeded the installed capacity. No wonder, in the month of October we achieved the highest monthly MS production of 382 TMT. During April to November, our Gross Refinery Margin has been Rs. 3692 Crores.

On safety, we continue to maintain our excellent track record and we have crossed 73 Million Accident Free Man-hours. However, we have to make great efforts on contractors' safety which is as important as our own employees. We have to focus more in *Health, Safety and Environment* including *Process Safety* initiatives, almost full vaccination of direct and contract employees and enhanced afforestation.

Last, but not the least, we laid a 2 Km pipeline from our Oxygen Plant to our old CR School which was converted as the largest Covid Field Hospital in the country. This was done on a war footing during the initial phase of the second wave and has helped in the treatment of nearly 5000 patients so far.

Friends, the New Year is expected to be the *Year of Recovery* for the whole world. For us, Year 2022 comes with 'this hope' and we need to focus on the following to succeed in the days to come:

- Ensure Safety as paramount in all our operations. As we say, 'Safety First, Safety Must' and make safety a way of life.
- Focus more on environment management to reduce CO₂/Carbon emission, water recycling, and efficient operation of Effluent Treatment Plants (ETPs).
- Achieve operation excellence by focusing on reduction in steam consumption, flare losses and slop generation .
- Operation of plant with 100% reliability and minimum Energy Intensity Index (EII).
- Enhance Manpower Efficiency & optimum utilisation of contract manpower
- Implement Digital vision by adopting emerging tools and technologies like artificial intelligence, machine learning and advanced process controls for all plants.
- Robust IS systems for enhanced MIS.
- Safe and timely completion of IREP shutdown.

I am reiterating the importance of these areas since these alone could pave way for greater success for our Refinery. Friends, let us look ahead with hope. Let us meet the challenges with great resolve to succeed. Let us make a new beginning with the learnings of the time gone by. As the great modern poet T S Eliot wrote :

"For last year's words belong to last year's language
And next year's words await another voice
And to make an end is to make a beginning"

Wishing you and your loved ones a healthy, safe and happy New Year

Warmly,
Ajith Kumar K
Executive Director (Kochi Refinery)





**A TRIBUTE TO
INNOVATION AND
COLLABORATION**

SAP DEMONSTRATION PLANT AT KOCHI REFINERY

Echoing the spirit of innovation and collaboration, both intrinsic values of Bharat Petroleum, and close on heels of the Petrochemicals launch at Maharatna Bharat Petroleum's refinery in Kochi, the Super Absorbent Polymer (SAP) demonstration plant of 200 tonne per annum has also come up at Kochi Refinery. The plant will use in-house patented technology and indigenous acrylic acid as feedstock for developing Hygiene Grade SAP used in hygiene requirements such as diapers and other incontinence products. The plant would also be a base for developing customised combinations of SAP for specific applications and buyer requirements.

Congratulating the BPCL R&D and the Kochi Refinery teams on the stupendous collaboration and execution, Mr. Sanjay Khanna, Executive Director In/charge (Refineries) inaugurated the SAP Demonstration Plant in the presence of Mr. Ajith Kumar K, Executive Director (Kochi Refinery) on 3 January 2022. Mentored by Mr. PV Ravitej, Executive Director (Refineries Projects), the project was commissioned on fast track with efficient time and cost control by the respective teams from BPCL R&D and Kochi Refinery.

On this historic achievement Mr. Sanjay Khanna expressed, "We can be proud that we have not sought support from any external agency for this project and the project has been completed in just seven months. The technology, piping and instrumentation diagram, detail engineering and equipment specification were totally developed in-house jointly by Corporate Research & Development Centre (CRDC) and Kochi Refinery teams. Both Polymerisation reactor and the drying units were shifted from BPCL's Corporate Research & Development Centre at Noida. Other units like Feed preparation unit, milling, coating and packing units were indigenously engineered and procured by the Project team. My heartiest congratulations to each and every member on this historic achievement for Bharat Petroleum."

E&C-Projects team led by Mr. S. Sriram, CGM (Engg & Advisory Services) and Mr. K.Ravi, GM (E&C) along with M/s Thomas Abraham, George Simon, Arjun Chandran, Shubham Khatri and Sreeja Kumaran in close co-ordination with the Technology Partners- CRDC Team led by Dr Ravikumar V, CGM(R&D) along with Dr Saptarishi Ray, Dr Renny AM, Dr Jitendra Sathyarathi, Dr M V Shyam Kumar and Dr Amit Kunte scripted this historical milestone at Kochi Refinery





A TRIBUTE TO INNOVATION AND COLLABORATION

Also present at the SAP launch along with the E&C Projects team were Dr V Ravikumar, CGM & Head (CRDC), Mr. Pankaj Bhowmick, Chief Procurement Officer (Refineries) and from Kochi Refinery, Mr. Chacko M Jose, CGM (Operations), Smt. Sarah Thomas, CGM (HR), Mr. Sankar M, CGM (Manufacturing) Mr. AN Sreeram, CGM (Petchem & Project Technical), and Mr. A Mahendiran, GM (Petchem Commissioning).

Corporate R&D developed the technology for production of Hygiene grade Super Absorbent Polymer (SAP). The in-house process is patented for three (3) different grades of SAP out of the more than 50 grades commercially available. SAP is produced using the Acrylic Acid which is manufactured at the new Propylene Derivatives Petrochemical Complex at Kochi Refinery that was dedicated to the nation by Hon'ble Prime Minister of India Mr. Narendra Modi in February 2021.

The SAP Demonstration Plant is capable of running 24x7. The product from this plant will validate the quality of the acrylic acid and will also be used for seed marketing. Once established the same will be taken for commercialization. Kudos to the teams for holding the BPCL flag of innovation and collaboration sky-high!

SAP PLANT





NEW FACILITY FOR SAFE STORAGE OF CHEMICALS INAUGURATED

A new state-of-the-art ware-housing facility has been developed to house the Chemical Storage Shed and Exchanger Tube Shed that have been relocated from its existing location for enhanced safety and security of critical materials at Kochi Refinery.

Mr. Sanjay Khanna, Executive Director In-charge (Refineries) inaugurated the new facility in the presence of Mr. Ajith Kumar K, Executive Director (Kochi Refinery) on 3 January 2022. Also present at the inauguration and walk-through of the facility were Mr. Chacko M Jose, CGM (Operations), Mr. Sriram S, CGM (Engg & Advisory Services), Mr. Suresh John, CGM (Refineries Projects), Mr. Pankaj Bhowmick, Chief Procurement Officer (Refineries) and Mr. Balagangadharan K, Head (Procurement - CPO), Kochi Refinery, Mr. K Ravi, GM (E&C-Projects) and Mr. Sampath Kumar RJ, GM (E&C).

Post implementation of the IREP the volume of materials had increased and the available storage capacity for critical materials was not sufficient for safe storage and preservation and hence the chemical shed that was located near the Main Control Room (MCR) was recommended to be relocated to a new ware-housing facility. The E&C team led by Mr. Sriram S, CGM (Engg & Advisory Services) and Mr. Sampath Kumar RJ, GM (E&C) along with M/s Sasi PK, Georgi Varkey Abraham and Archana AV anchored the completion of the state-of-the-art facility that has been developed in phases over 2019-20 and 2020-21 at a total cost of Rs.1077 lakhs. The 12 M high new ware-house that has been constructed as a pre-Engineered building and houses a 35 x 100 M Chemical Storage Shed and 37.5 x 20 M Exchanger Tube Shed. The new roofed space will safely hold large quantities of materials including chemicals and lube oil drums.





INTRODUCING

Focusing on cost reduction in various areas of operation and to reduce the number of vehicles plying inside, Kochi Refinery introduces 'PoPo' (Point to Point) bus service inside the refinery campus.

Focusing on cost reduction in various areas of operation and to reduce the number of vehicles plying inside, Kochi Refinery is introducing 'PoPo' (Point to Point) bus service inside the refinery campus. Vehicles presently used for transportation of employees in general shift from KR main gate to various units and back for duty will be used for this service additionally under the existing contract without any extra cost. KR employees as well as anyone possessing a valid ID/entry pass (contractors, trainees etc) to the refinery is entitled to avail this free service for commuting inside the refinery for official purposes.

Presently, five routes connecting various areas inside the refinery have been identified for operating PoPo during the general shift timings.

Mr. Sanjay Khanna, Executive Director I/c (Refineries) flagged off the service in the presence of Mr. Ajith Kumar K, Executive Director (KR) at the first bus shelter inside the Refinery on 03 January 2022.

HSE NEAR MISS AWARDS 2021

Hearty Congratulations Near Miss Award Winners for the month of December-2021

 Prathapan J S MFG-II/ CDU-3	 Radhakrishnan K K MFG-II/ CDU-3	 Sunil Kumar K N MFG-II/ CDU-3	 Akhil SD MFG-II/ CDU-3	 Jithu Kailas V V MFG-II/ CDU-3	 Anoop P B MFG-II/ CDU-3	 Gousam Mohmmad MFG-II/ CDU-3
 Ezhumalai V MFG-II/ CDU-3	 Ajith KS MFG-II/ CDU-3	 Jijo Mathew P&U/Old Utility	 Paul T Thomas P&U/Old Utility	 Bijoyshani Tirkey P&U/Old Utility	 Vishnu S P&U/Old Utility	 Narayanan V P&U/Old Utility

TRENDING ONLINE JANUARY 2022

Bharat Petroleum Corporation Limited
4 January · 🌐

BPCL signs Memorandum of Agreement with CSIR - Indian Institute of Chemical Technology, Hyderabad to develop innovative Bio-reactor design to produce Compressed Bio Gas from agricultural waste residues, such as wheat straw, rice straw, sugarcane bagasse, etc. This will not only reduce India's dependency on crude oil imports but also enhances farmers' income and rural employment. The solid by-product of the process can be used as "Manure".
The MoA was inked by Dr. V Ravi Kumar, Chief General Manager (Research & Development), #BPCL and Dr. D. Shailja, Chief Scientist & Head, Business Development & Research Management, CSIR-IICT on 23rd December, 2021 in the presence of senior officials from both the organization.



Bharat Petroleum Corporation Limited
15 January at 08:00 · 🌐

Why worry when we've got you covered? This saas-bahu jodi will keep experiencing bittersweet moments, but Bharatgas remains a constant always! Kyuki #Bharatgas hai Bharat ki pasand!
#BPCL

Bharat Petroleum Corporation Limited
15 January at 15:39 · 🌐

#IndianArmyDay reminds us of all our fearless and selfless heroes who stand strong to keep us safe! We celebrate with pride their service to our Nation. #BPCL

Kochi Refinery
24 January at 19:22 · 🌐

With love we dedicate a special song created and rendered by Team #KochiRefinery for our beloved #BharatPetroleum on the 46th #FoundationDay celebrations on 24 January 2022.
HAPPY FOUNDATION DAY Bharat Petroleum Corporation Limited
Song credits : Anoop D Bhatt (composer), Nishanth Choubey & Vineeth M Varghese (lyrics), Rupam Dutta, Rajesh BK, Arjun T Chandran, Mahesh CD & Prasanth T (singers), Renjith J, Harish R Chandran, Sachin V Mathew and Binu R (Instruments).
Brand & Media coordination : George Thomas & Kavitha Mathew

Bharat Petroleum Corporation Limited
19 January at 08:00 · 🌐

Have you been to our In&Out stores yet? A one-stop shop for all your needs at more than 150 #EnergyStations

WATCH VIDEO

VISIT BPCL GAS STATIONS & ENTER 'IN&OUT' FOR A QUICK BITE!

WATCH VIDEO

3:48 / 3:59

CONGRATS ON CROSSING YOUR CAREER MILESTONES

35 years



Mehrishi S
IS



Thirunnavukarasu
Internal Audit



Chacko M Jose
O/o CGM(Ops)



Sreeram AN
O/o CGM(PT-Petchem)



Murugaiyan R
OM&S



Emile Toppo
HR

25 years



Suresh Thomas
Finance



Rajkumar R
OM&S



Snehamoy Halder
Tech -QMS



Raghavan K
Maint



Georgi Varkey
Abraham / E&C



Mathew P Thomas
P&U



Anil K Nair
OM&S



Fiju Francis V
OM&S



Haridas C A
Maint



Satheesh Kumar KP
Proj



Sathyan V
TMGMT-IREP



Girish Kumar K
F&S



Arun Kumar K
F&S

20 years



Mathiyalagan P
QC

SUPERANNUATION

BEST WISHES TO OUR COLLEAGUES SUPERANNUATING THIS MONTH



Padmanabhan K

joined the organization in the Personnel & Administration Department in 1988 and is retiring from the Project Contracts & Services department this month.



Sreedharan T

joined the organization in the Manufacturing in 1984 and is retiring from the same department this month.



Jayakumar K

joined the organization in the Personnel & Administration Department in 1988 and is retiring from the OM & S department this month.



Varghese M K

joined the organization in the Maintenance Department in 1984 and is retiring from the same department this month.

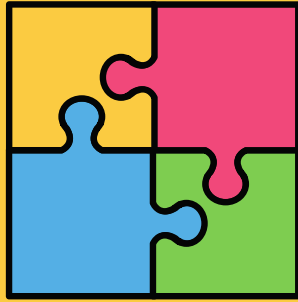
Happy Birthday

WISH KOCHIREFINERS CELEBRATING THEIR SPECIAL DAY IN JANUARY 2022.



LOG ON TO KR SOCIAL MEDIA TO WISH OUR TEAM MATES DAILY ON FACEBOOK AND TWITTER

JWALADHWANI



HELLO Kochi

Through the eyes of new Kochi-ites

In the last two years many colleagues have joined Kochi Refinery from different parts of India. A big hello to all of you and hearty congrats on assimilating with the State, people and its culture. We invite you to share your experiences of finding your way through and mastering the art of being a Kochi-ite. Perhaps you have discovered unique eat-outs that suits you best and great places in and around Kochi to freak out with friends and family. Or a personal hide-out to find peace and tranquility. *JwalaDhwani* invites you to share these unique experiences and win exciting prizes. Your discoveries can perhaps help regular Kochi-ites and visiting officials also to look at the City in a new light! Let's give your twist to the tale of two cities, your home city and Kochi!

This will be a regular feature and each entry will receive a *JwalaDhwani* prize. The photo and article will be edited suitably for publishing in the eJournal. Articles published in other journals can also be sent here, provided you are the author of the article and there are no copy-right issues on the content.

Once published, the content (article and photo) becomes a property of *JwalaDhwani* which will also be shared on other platforms of Kochi Refinery for positive visibility of the author and the content.

To be featured in the new column starting from the March edition of e-JwalaDhwani scheduled for release on 01 March 2022, please mail your article with your name, badge number and department to kavithamathew@bharatpetroleum.in. by 15 February 2022. For further editions, please send your articles by the 15th of every month. The eJournal will be released on the first of the month from March 2022.



George Thomas
GM(PR & Admn)
& Editor (JwalaDhwani)

CHRISTMAS AT SCHOOL

After a long gap, CRS was filled with peals of laughter and giggles of joy when the little ones of KG came to school to celebrate Christmas. The boundless joy of celebrating Christmas at school was seen on the faces of the children as they stepped into the campus. The school wore a festive look with the colourful decorations. The delightful celebration had children decked up in red and white, dancing and singing to the merriment together.

Classes 1 to 12 celebrated Christmas online. Christmas special video was presented during online class on the closing day of Christmas vacation. 'Tinsel Bells' a family contest in connection with Christmas was conducted for students of classes KG to 5. The contest witnessed a mind blowing participation of family members in events like Carol singing, Carol dance, Wreath making, Star making and Nativity Scene. The winners were chosen from each class and prizes were distributed.



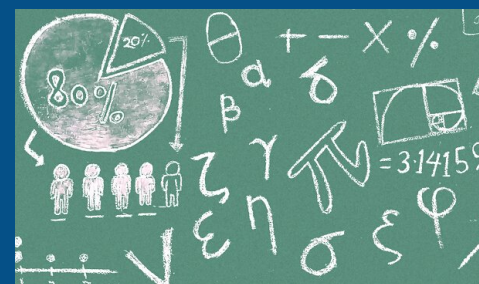
WALLS THAT INSPIRE

Students and teachers of CRS picked up the painting brush as part of the school beautification project 'Nirakootu'. The passion for art blended with fine artistic skills brought life to the walls of the kindergarten. News Channel, 24 covered the news about the project.



WORLD SOIL DAY

As part of World Soil Day, the Love Green Club organised 'Soil Art Activity' for students of CRS. To raise awareness of the importance of soil to the sustenance of life on earth, the club presented a video which was shown to the classes during the morning assembly.



GANIT DIWAS

The students of CRS, under the guidance of the Mathematics department, prepared a video on Ganit Diwas. To mark the birth anniversary of the legendary Indian mathematician, Shri Srinivasa Ramanujam, the video gave insight into the life, works and contributions made by him in the field of Mathematics.



NEW GUIDELINES FOR HOME ISOLATION

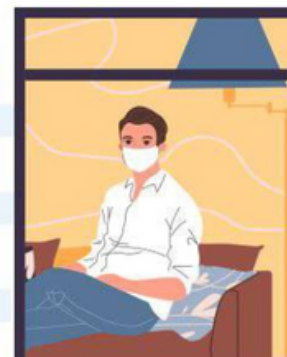
Of COVID-19 cases



Ministry of Health
and Family Welfare
Government of India

my
GOV
मेरी सरकार

Instructions for the Patient



- ▶ Must isolate from other family members
- ▶ Stay in a well-ventilated room
- ▶ Use a triple-layer medical mask at all times
- ▶ Take rest & drink a lot of fluids
- ▶ Undertake frequent hand washing or use sanitiser
- ▶ Don't share personal items including utensils
- ▶ Ensure cleaning of frequently touched surfaces
- ▶ Self-monitor blood oxygen saturation with a pulse oximeter
- ▶ Self-monitor daily temperature



For up-to-date
information visit:
Ministry of Health and
Family Welfare
Government of India at
mygov.in/covid-19/

Happy New Year FROM THE HOUSE OF BPCL



WATCH VIDEO 