Bharat Petroleum
energising lives

JWALA DHWANI

Happy New Year



AMAZING
2018
AMAZING
REFINERY



प्रिय सहकर्मी,

आप को नया साल मुबारक !

प्रारंभ में, वर्ष 2017 को भारत पेट्रोलियम कोच्चि रिफ़ाइनरी के इतिहास में सुनहरे अक्षरों में उत्कीर्ण होने वाले वर्ष बनाने के लिए आप में से हरेक को अपने महत्वपूर्ण योगदान के लिए मैं बधाई देता हूँ ।

भारत सरकार द्वारा भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड को महारत्न घोषित किया जाना हमारे लिए एक महान क्षण था । बीपीसीएल ग्रुप रिफ़ाइनरियों के लिए यह खुशी और भी दुगुनी मीठी है, क्योंकि एकीकृत रिफ़ाइनरी विकासन परियोजना के पूरा होने से 15.5 एमएमटी पीए की वर्धित क्षमता से कोच्चि रिफ़ाइनरी, भारत की सबसे बडी सरकारी उपक्रम रिफ़ाइनरी बन गई है ।

इस महान उपलब्धि पर केआर परिवार को मेरी हार्दिक बधाई ! महारत्न बीपीसीएल की फ्लैगशिप रिफ़ाइनरी की तरफ़ केआर की यात्रा में वास्तव में यह एक महत्वपूर्ण कदम है । एक विशाल परियोजना की कमीशनिंग में, रणनीति बनाने और निष्पादित करने से लेकर संपर्कों तक हर तरफ़ से ज़बरदस्त प्रयास की ज़रूरत है । इस सामूहिक प्रयास के लिए हरेक और सभी ग्रुप, प्रशंसा के पात्र हैं !

तदुपरांत, प्रोपिलीन डेरिवेटीव पेट्रोकेमिकल परियोजना (पीडीपीपी) और मोटर स्पिरिट ब्लॉक परियोजना जैसी बडी परियोजनाएं, बीपीसीएल की मूल्य श्रृंखला बढा देंगी और नए साल में हमारे जीआरएम में सुधार लाने के लिए नए उत्पादों की तरफ़ हमारी चढाई एवं एक नया दृष्टिकोण स्थापित करेंगी ।

आईआरईपी परियोजना के भाग के रूप में ठेके पर हाइड्रोजन और नाइट्रोजन अणुओं की आपूर्ति करने के लिए मेसर्स एअर प्रोडेक्ट्स के साथ के संयुक्त उपक्रम, बिल्ड ऑन ऑपरेटर (बीओओ) ने मार्च, 2017 से हाइड्रोजन की आपूर्ति प्रारंभ की है । उन्नत प्रौद्योगिकी, गहराई से अनुसंधान और एक प्रतिबद्ध टीम के साथ प्रचालनात्मक उत्कृष्टता में नए मानक स्थापित करके हम एक विश्व स्तरीय रिफ़ाइनरी के रूप में शक्ति से बढ़ रहे हैं ।

वर्ष 2017 को केआर ने दर्ज किए दुर्घटना रहित 52 मिल्यन श्रमघंटे पर बधाई ! मुझे यकीन है कि इस महत्वपूर्ण क्षेत्र में हम और मीलपत्थर सतर्कता से पार करेंगे । मैं, पूरे ज़ोर से चल रही पर्यावरण संरक्षण पहल कार्यों की भी प्रशंसा करता हूँ ।

मैं, नई प्रौद्योगिकियों के नवाचार करने, अपनाने और कार्यान्वयन के लिए प्रौद्योगिकी टीमों को भी बधाई देता हूँ । केआर के कुछ नवप्रवर्तन कार्य, सहयोगी रिफ़ाइनरियों में अपनाए जा चुके हैं । जीएसटी कार्यान्वयन पर निर्विघ्न लेनेदेन सुनिश्चित करने के लिए निगम द्वारा प्रारंभ किए गए नए परिवर्तनों के साथ निर्बाध एकीकरण के लिए समय और गति में वृद्धि सहित, सभी प्रकार्यों की टीमों ने एकता के साथ काम किए हैं ।

"प्रधानमंत्री कौशल भारत अभियान" के अनुरूप बीपीसीएल ने सरकारी क्षेत्र के सभी तेल उपक्रमों को प्रवर्तकों के रूप में शामिल करके कोच्चि में एक कौशल विकास संस्थान की स्थापना की है और केरल में इस पहल को कोच्चि रिफ़ाइनरी प्रभावी रूप से प्रस्तुत कर रही है । जल्द ही आने वाली तीसरी बैच के छात्रों को मेरी शुभ कामनाएं ।

गज़ब का 2018 गज़ब की रिफ़ाइनरी

वर्ष 2017 में स्वास्थ्य, शिक्षा और सामुदायिक विकास के महत्वपूर्ण क्षेत्रों में कई सीएसआर परियोजनाएं प्रारंभ की गई थी । ये, समाज को प्रत्यर्पित करने के हमारे तरीके का एक हिस्सा है और हम यह सुनिश्चित करें कि हमारे द्वारा समर्थन की जाने वाली हरेक परियोजना टिकाऊ है, क्योंकि, ये परियोजनाएं एनरजाइज़िंग लाइव्ज़ की तरफ़ हमारी प्रतिबद्धता है । हमारे सीएसआर प्रयासें के लिए "सर्वश्रेष्ठ कॉर्पोरेटनागरिक पुरस्कार" जीतने के लिए बधाई ।

मुझे यकीन हे कि रेमिनिसेंस 2017, पूर्व नेताओं, दूरदर्शियों और सहकर्मियों के साथ रिफ़ाइनरी की विकास कहानी का साझा करने का महत्वपूर्ण अवसर था । मैं सेवानिवृत्त बंधुओं को उनके कार्यवृत्ति के दौरान कोच्चि रिफ़ाइनरी को अवसर के अनुरूप ऊपर उठने में किए उनके प्रयासों के लिए धन्यवाद अदा करने के लिए भी इस मौके का लाभ उठाना चाहता हूँ और इन्हें भविष्य में अच्छी खबरों की भी कामना करता हूँ ।

सोश्यल मीडिया पर अपनी उपस्थिति स्थापित करने के लिए भी मैं कोच्चि रिफ़ाइनरी को बधाई देता हूँ । नए साल में, मैं आप सभी को इन प्लेटफार्मों में शामिल होने और रिफ़ाइनरी के बारे में एनरजाइज़िंग और सकारात्मक जानकारी का साझा करने के लिए आमंत्रित करता हूँ, ताकि यह भारत पेट्रोलियम का एक अनूठा ब्रैंड बन सकें । जैसे कि दूसरे विपणन पहल की तरह, हम बीपीसीएल की रिफ़ाइनरियों के योगदान को बढ़ा दें और दुनिया को बता दें कि भारत पेट्रोलियम के अद्वितीय उत्पादों के वितरण के लिए हम कितनी सूक्ष्म सावधानी सुनिश्चित करते हैं ।

केआर ने इस वर्ष, वार्षिक IDEAS प्रतियोगिता में सबसे अधिक विचारों को सामने प्रस्तुत की है । यह न सिर्फ अग्रणी समाधान के लिए जोश प्रकट करता है, बल्कि विघटनकारी परिवर्तन को गले लगाने को हमारी हिम्मत भी प्रदर्शित करती है । मैं आप में से हरेक को अधिक से अधिक सफलता की कामना करता हूँ, जबकि आप अपने व्यक्तिगत योगदान से रिफ़ाइनरी को एनरजाइज़ करें ।

आशा करता हूँ कि नया साल ऐसा हों, जिसमें एक उत्कृष्ट रिफ़ाइनरी के नए उदय के लिए हम से निर्दिष्ट सपने और लक्ष्य हम हासिल कर पाएं ।

आपको और आपके परिवार को शुभ और समृद्ध नए साल की कामनाएं !

रामचंद्रन आर
निदेशक (रिफ़ाइनरीज़), बीपीसीएल





Dear Colleague,

A very Happy New Year to you!

At the outset let me congratulate each one of you for your remarkable contributions in making 2017 a year that will remain etched in golden letters in the history of Bharat Petroleum Kochi Refinery.

It was a great moment for Bharat Petroleum Corporation Limited when we were declared a Maharatna by the Govt of India. The joy is double sweet for BPCL group of Refineries as Kochi Refinery has become the biggest PSU Refinery in India with the augmented capacity of 15.5 MMTPA, post completion of the Integrated Refinery Expansion Project.

My heartiest congratulations to the KR family on this tremendous achievement! This is indeed a great push forward on KR's journey of being the flagship refinery of Maharatna BPCL. Commissioning a mammoth project calls for tremendous efforts from all ends right from strategizing and execution to liaisons. Hats off to the collective effort from each and every group!

Followed by the Propylene Derivative Petrochemical Project (PDPP) and the Motor Spirit Block Project (MSBP), each of these major moves will add to the BPCL value chain and establish our foray for new products and a brand new approach in the New Year for improving our GRM.

The Build Own Operator (BOO), a joint venture with M/s Air Products that was given contract to supply hydrogen and nitrogen molecules as part of IREP project started delivery of hydrogen from March, 2017. Setting new benchmarks in operational excellence with advanced technologies, in-depth research and a committed team, we are growing from strength to strength as a world class Refinery.

Congratulations on the 52 Million accident free man-hours that KR has clocked in 2017. I'm sure there will be more milestones that we will consciously cross in this very important area. I also commend the environment care initiatives that are progressing in full swing.

Let me also congratulate the technology teams for innovating, adopting and implementation of new technologies. Some of KR innovations are already under adoption in the sister Refineries. The teams have worked in harmony across functions including rising in time and speed for seamless integration with the new changes introduced by the Corporation for smooth transactions post the GST implementation.

In line with Hon'ble Prime Minister "Skill India Campaign", BPCL has set up a Skill Development Institute at Kochi with all oil PSUs as promoters, and Kochi Refinery is effectively anchoring the initiative in Kerala. My best wishes to the third batch of students that will be taken in shortly.

A host of CSR projects in the thrust areas of Health, Education and Community Development were initiated in 2017. These are part of our way of giving back to society and let us assure that each project we support are sustainable as they are our commitment to energizing lives. Congratulations on winning the "Best Corporate Citizen Award" for our CSR efforts.

I am sure Reminiscence 2017 was a cherished occasion to share the growth story of the Refinery with former leaders, visionaries and colleagues. I would like to take this opportunity to thank the Retired fraternity for rising up to every occasion for Kochi Refinery while in action and also wish them good tidings in the future.

I also congratulate Kochi Refinery on opening their presence on Social Media. In the New Year, I invite all of you to join these platforms and share energizing and positive information about the Refinery to make it a unique brand of Bharat Petroleum. Like any other marketing initiative, let us amplify the contributions of the Refineries of BPCL and tell the world more about where the unique products of Bharat Petroleum are made from and the precision care we take for delivering world class products.

KR has put forth the maximum number of ideas at the annual IDEAS competition this year. It shows the passion for not just path-breaking solutions but also our courage to embrace disruptive change. I wish each one of you more success as you energize the Refinery with your individual contributions.

Let the New Year be one that sees the fruition of all the dreams and goals we have boldly set for the brave new rise of a Refinery par excellence.

I wish you and your family a Happy and Prosperous New Year!



Ramachandran R
Director (Refineries), BPCL



'In the crucible of change'



Dear Colleague,

It was a late evening when one of our IREP units was being commissioned. A cross-section of refiners and consultants were waiting anxiously for the feed-cut. The count-down had begun and there was pin-drop silence. It was like waiting in the launch control centre during a space-craft take-off. Each one could hear the others' breath. We waited patiently. Then the system commenced and there was all round joy and celebrations.

This was one of the enduring moments in which we recalled the significance of our efforts. And felt the pride of contributing in the building of a 'New India.' Such moments were in fact the culmination of our efforts and struggles in creating world-class facilities in BPCL Kochi Refinery in the last few years.

Friends, one of the most challenging years in the history of our Refinery has passed by. Those who were involved in IREP would remember Year 2017 for such anxious moments, final thrust for completion, night vigils, failed initial attempts and ultimate triumph. And the collective experience of Team KR has been undoubtedly the sense of challenging changes and transformation all around.

In the year gone by, we completed the commissioning of all the **IREP Units** and monetized the largest project ever of our company. In the process, we became the largest Public Sector refinery in the country and enhanced our 'refinery complexity' matching global standards. It is a matter of great joy that our Chairman & Managing Director along with other Board Directors had extended their appreciation for the hard work and dedication shown by one and all in completing this herculean task.

In 2017, we advanced the Propylene Derivative Petrochemical Project (PDPP) and thereby embarked on our journey to further expand the value chain and meet the possible disruptive forces of future. We also started the implementation of the Motor Spirit Block Project (MSBP) for producing BS VI petroleum fuels by year 2020.

On 23 July 2017, we reached yet another milestone of completing **50 Million Man-hours** without any loss time accidents which is one of the best in the country. In September, Government of India elevated BPCL to the **Maharatna** status which has enhanced the financial autonomy of the company. As far as the Financial Year is concerned, we have reached the crude throughput of 10 Million Metric Tonnes in just nine months which is for the first time in our history. In the rest of the three months of the Financial Year 2017-18, we have the challenging target of refining 4 Million Metric Tonnes of crude oil to meet our Business Plan targets.

Indeed, in the last year we have reached many milestones and have met most of our challenges. However, Year 2018 looks no less challenging as we look forward to bring forth full synergy between the IREP plants and the old units just like a symphony. We look forward to derive the full benefit of the new units in terms of energy efficiency, enhanced safety features, reliability, additional environmental advantages, etc. We need to derive maximum financial advantage in form of increased Gross Refinery Margin which could only authenticate the efforts and capital put in for IREP. Moreover, we need to make significant progress in PDPP and MSBP so as to complete the projects on time and within the approved costs.

During all these efforts, we need to give utmost care towards safety which remains the most important priority. This year we are embarking on an inspiring journey of Process System Management Vision 2020 to achieve excellence and benchmark with world-class refineries. I urge one and all to join in this effort.

In many ways, we are in the crucible of change. We are presently moving in to the league of the top rated world-class integrated refineries with fuel and petrochemical streams. Shaping such a destiny, demands that each one of us also re-engineer oneself by learning and transformation. For that we need to challenge ourselves continuously keeping in view of high global standards and excel in our respective areas in KR and beyond.

Let us dedicate the Year 2018 for re-engineering ourselves to match the world class facilities that we have created. I wish you and your family a Safe, Happy and Prosperous New Year.

Prasad K. Panicker
ED (KR) I/C





VISION 2020

for Process Safety Management

On the occasion of this New Year 2018, I am extremely happy to announce the PSM Vision 2020, an inspiring initiative to implement Process Safety Management principles on a full-fledged basis throughout our refinery. This will help us in setting new benchmarks in the field of Process Safety and would also give us an opportunity to further streamline our processes, strike a good balance between processes and safety thereby enhancing safety and productivity.

We have successfully commissioned our IREP units without any major incidents. However, managing the ever expanding refinery which has grown both in volume and size needs a proper system and a very good safety culture. We have to build a culture wherein, everybody is expected to do the right thing in the right way even when no one is watching.

Process Safety Management (PSM) is a holistic and performance based approach which will lead us to an even more impressive safety record. PSM emphasizes on adherence to its elements leading to prevention of accidents, and reduction in risks associated with plant operations. This new framework will build upon the established principles, integrating our key learnings over the years to protect people, environment, assets and the reputation of our organization.

It is planned to rollout PSM implementation in phases to strengthen the foundations of PSM namely:

- **Commitment to Process Safety**
- **Understand Hazards and Risks**
- **Manage Risk**
- **Learn from experience**

The first phase would be in CDU-2 aiming part implementation by March 2018 and from April 2018 onwards it would be parallely implemented in all the process units and other service departments. It is a very challenging and daunting task to implement all the PSM elements in all the process units by March 2020.

I urge everyone to actively participate in this journey and make this initiative a grand success so as to achieve excellence and bench mark ourselves with world class refineries. I wish you and your family a Safe, Happy, Healthy and Prosperous New Year 2018.

Let us strive together to move from Good to Great !

K. D. Damien Gracious
CGM (HSE)

JWALA DHWANI



INSIDE



02 Message
New year greetings from Director (Refineries), BPCL

09 Highlights
BPCL KR bags productivity Award
BPCL-SBI card launched

15 Travelogue
Bimujang Jidae

17 Centre Point
REM 2017

19 People
Service Citations
Transfers

21 Young Minds
Chacha Cup 2017
CBSE Kalotsav

23 Hindi
मेरा दोस्त
महारत्न

25 Malayalam
ചതുരംഗക്കരുക്കൾ
സമ്പാദ്യം
മെല്ലെ ഓരം ചേർന്നൊരാൾ...

28 Regional Language
u a Ì £Sv

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Kavitha Mathew/ HR

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Varun M./ QC
Vino Varghese/ Manufacturing
Preethi Rajeev/ CR School

Edited & published by
Chief General Manager (HR)

Editorial correspondences
kavithamathew@bharatpetroleum.in

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BPCL Kochi Refinery

Mailing address
Post Bag No. 2
Ambalamugal 682 302
Ernakulam District
Kerala, India.
Tel: 0484 2722061
Fax: 0484 2720856

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EDITORIAL

Amazing 2018

It is a great feeling to start a New Year and *JwalaDhwani* wishes you an Amazing 2018 with this power packed issue.

We open the issue with greetings from our Director (Refineries) where he has congratulated Team Kochi Refinery, past and present, on the brilliant efforts in taking our Refinery to the position of the biggest PSU Refinery in India. Our ability to manage complex situations and safety consciousness is what has encouraged BPCL Board to invest confidently in high risk and future-centric projects in Kochi Refinery.

In a special message from Executive Director (Kochi Refinery), we bring you a closer look at the milestones we have crossed together as an unbeatable and great-original team! We also unfold "Vision 2020" for Process Safety Management, a new initiative at Kochi Refinery, in a note from Chief General Manager (HSE).

We bring you IT innovations implemented in KR that are ready for replication in sister refineries and also take you through few special moments of *Reminiscence 2017*, the biennial event for the retired fraternity. Starting this issue, we are happy to introduce a special page for Regional Languages to make it interesting for our family that is now richer with members from more states. We invite your contributions to these pages.

Our journey at KR is one where we revel in the bonds that travel into the past, empower the present and jolt us back to the future in an energizing continuum. *Jwaladhwani* continues as a platform where we witness the amalgamation of our contributions on the KR timeline. We now also have our social media platforms to stay connected on real-time. Please stay in touch with us, contribute creatively and participate in the engagements that we plan for you from time to time.

Once again we invite you to immerse yourself in the joy and pride as we excel together year after year in the rise of an amazing Refinery.

Wish you a safe, healthy, happy and amazing year !

Warm regards

Editor



Kochi Refinery bags Kerala State Productivity Award for 2015-16

Kochi Refinery has been bagged the FACT MKK Nayar Productivity Award for Large Scale Industries for 2015-16 instituted by the Kerala State Productivity Council (KSPC). Mr. Prasad K. Panicker, Executive Director (Kochi Refinery) I/c and Mr. Prabhakaran M. V., Chief General Manager (HR) received the award from Mr. A. C. Moideen, Hon'ble Minister for Industries, Sports & Youth Affairs, Government of Kerala and President, Kerala State Productivity Council at Productivity House on 01 December, 2017.

The awards have been instituted with the objective of enthusing Large, Medium, Small Industries and Service organisations to continue to involve themselves in the increase of productivity and to create a healthy competition among organisations for achieving higher productivity.

Established in 1959, the Kerala State Productivity Council is an autonomous tripartite organisation with representation from State Government, Industrial Management and Employees Unions. The Council is affiliated to the National Productivity Council, New Delhi and Asian Productivity Organization, Tokyo.

The Productivity Award is conferred considering the improvements in the areas such as profitability, value addition per employee, productivity, record of industrial relations, safety record, skill development, extent of involvement in social responsibilities, energy conservation, quality, environment management, technological advancement and innovation, social commitments and sustainability initiatives, and welfare measures and employee satisfaction.

Mr. Ramachandran N of Projects- Contracts & Services bagged the first prize for the Essay Contest in English organised by the KSPC. The theme for the contest was From Waste to Profit through reduce, reuse and recycle.

KR develops 'Environment Dashboard'



Kochi Refinery IS Dept. has developed an Environment Dashboard for monitoring various environmental parameters on a single screen.

The new application was launched by Mr. C.K. Soman, Chief General Manager (Operations) in the presence of Mr. Kaushik A.K, ED (IS- Group Refineries), Mr. Thampi P. K., CGM (Technical), Mr. Damien Gracious, CGM (HSE), Mr. L.L. Ramachandran, General Manager(IS), KR and other senior officials from KR, MR, BORL and NRL on 27 November 2017. Currently the data from 5 AAQMS and 21 stacks are available in different vendor portals of CPCB that makes monitoring a very tedious task. The Environment Dashboard will serve as a common platform to monitor all AAQMS & Stack Analyser parameters in a convenient manner. It also displays trends, minimum / maximum / average values of readings for different time frames on real time.

C&MD, BPCL & Chairman, SBI launch *BPCL-SBI card*



Bharat Petroleum, and SBI have come forward to mark the beginning of a new partnership with an all-new co-branded Credit Card.

On 20 December 2017, the BPCL-SBI Card was launched by Mr. D. Rajkumar, Chairman, Bharat Petroleum, and Mr. Rajnish Kumar, Chairman, SBI at a glittering ceremony in Mumbai. Both BPCL and SBI are widely known for its reach and ethics and similar customer philosophies, as we both nourish and cherish relationships with our customers and their satisfaction at the core of our businesses.

BPCL has long recognised that our loyal urban customers need a loyalty proposition, which offers them attractive opportunities to earn points when they make a purchase from us.

Collaboration with State Bank of India, bundles maximum value back on fuel with accelerated savings on other regular spends categories for our consumers, including Department Store & Grocery, Entertainment and Utility Bill payments, making it very comprehensive and rewarding credit card in its segment.Initially, this card will be accepted across 1,200 ROs in select Cities, which will be gradually extended across the BPCL network. Exclusive benefits of the BPCL-SBI card are the highest among its category.

BPCL has been in the forefront to promote cashless payment options at our network. Currently 22% of our total sales is through these options, which is higher than the industry average. BPCL-SBI co-branded card, catering to all the major spending needs of the cardholder, will play a major role in enabling our consumers to use more cashless payment options, building a cashless society.

EXCLUSIVE BENEFITS



- **4.25 % value back on fuel transactions at Bharat Petroleum fuel stations; highest in the industry.**
- **Additional Cashback of 0.75%**
- **Rewards Points worth Rs 500 as Welcome Gift**
- **13X Reward Points on Fuel Spends at BPCL - No minimum transaction threshold to save on fuel**
- **5X Reward points per Rs.100 spent at Department Store, Groceries, Utility Bills payments, Dining and Movies**
- **Avail Instant Redemption at select 1,200 Bharat Petroleum Retail Outlets, which will gradually expand**
- **Redemption of Reward Points for exclusive products across categories at SBI Card`s flagship rewards programme – Shop and Smile**

KR launches *IP 21, Version 10*. First in Asia-Pacific



Kochi Refinery IS and Optimisation teams have crossed yet another milestone in planned technology enhancement, by moving into *InfoPlus 21, Version 10*. The new version has been implemented as part of upgrading the Manufacturing Execution Systems and provides faster access to real-time plant data and analytical tools for efficient decision making.

InfoPlus 21 (IP21) Version 10 was formally launched in Kochi Refinery by Mr. Prasad K. Panicker, ED (I/C KR) in the presence of Mr. Kaushik A. K., ED (IS, Group Refineries), Mr. Soman C. K, CGM (Operations, I/C KR), Mr. Thampi P. K, CGM (Tech), Mr. Damien Gracious K. D., CGM (HSE), Mr. L. L. Ramachandran, GM (IS), Mr. Venu R, DGM (Optimisation) and other officials of KR on 27 November 2017.

InfoPlus 21 is the historian from AspenTech, storing real-time data from the plant DCSs enabling real-time access to plant parameters for decision makers. Kochi Refinery is the first to roll out *IP21* in version 10 in the Asia Pacific.

Smart features of *IP21 Version 10* include A1PE (Aspen One Process Explorer which is available on web. It is rich in visualization and it operates on 64-bit architecture. It provides pattern recognition and discovery features, which are powerful tools to analyze a situation or event in process data history.

It also delivers a rich set of tools for alarm management, process browser graphics, dashboards etc. *IP21* system is also integrated with other refinery core systems such as Laboratory Information Management System (LIMS), UOP's Opaware, BPMAI and other MES applications like AtOMS & Advisor.

Tributes to a great visionary, Dr. Ambedkar



The Federation of Central Govt. SC/ST Employees (Kerala)-BPCL KR Unit observed the 61st death Anniversary of Dr. B. R. Ambedkar on 6 December 2017 at Kochi Refineries School Premises. To mark their respect, the Federation President Mr. K Ravi lit the lamp and garlanded the statue of Dr. B. R. Ambedkar.

Mr. T. S. ManojKumar, Secretary welcomed the gathering. Mr. E. K. Ravi, Treasurer proposed the vote of thanks. Mr. C. Satheesan, Vice President also spoke on this occasion.

The federation members offered floral tributes and paid homage to the great leader of the nation.



32 Sakhsam Kiosks installed for Kochi Refinery operators

Saksham Kiosks for operators go-live across Kochi Refinery. Mr. M. V. Prabhakaran CGM, (HR), launched the kiosk in the presence of Mr. Anil Kumar Kaushik, ED(IS Group Refineries), Mr. L.L. Ramachandran, General Manager (IS), KR, Mr. Mohan Ram B , DGM (HR) and other senior officials of HR and Safety. In the last 4 months, 32 kiosks have been installed at Operator Cabins in the Refinery. The kiosks will serve as an effective connecting point for Staff working in the Plant as they can access the ***My Portal*** to apply for their leaves, access medical reimbursement updates and also their personal information like salary slips, Form 16 and so on without individual domain login id.

The kiosk is a self contained device having a computer with touch screen , printer and UPS enclosed in a safe metallic container.

KR exclusive workshop on *eLog*

Electronic Log book (eLog), an innovative solution for digitization of all manual logs at Kochi Refinery has been successfully implemented. Developed in-house by Kochi Refinery IS team, the eLog is all set for replication in Group Refineries of Bharat Petroleum.

A brainchild of ED(KR) I/c Mr. Prasad K. Panicker, the eLog was envisaged for the IREP to replace manual logs. It has now been successfully implemented at all manufacturing units of Kochi Refinery in different phases. The core committee formed for the implementation included M/s Rajeev C, DGM(Proj Tech), Venu R, DGM (Optimisation), Saji Babu CM(Manufacturing), Shajikumar M. R., DGM(Mfg), Sajeesh V. S., CM(Mfg), Saji George, former SM (Utilities), K. Subbaraydu, DGM(OM&S), Jayasankar P, CM(Utilities) and Mahesh S, SM(Inspection).

An exclusive knowledge sharing workshop was organized by KR IS team for familiarization of the features and potentials of the elog. Refinery role holders from Mumbai Refinery, Numaligarh Refinery, Bharat Oman Refinery Ltd and MMBPL participated at this workshop on 28 November 2017. Mr. Kaushik A K, ED (IS - Group Refineries) addressed the gathering in the presence of Mr. L. L. Ramachandran, GM (IS), Mr. M. R. Subramoni Iyer, GM (Mfg) and Mr.Behera Ratnakar, Vice President (IT & Automation, BORL).

eLog started its journey in Kochi Refinery on 1st Feb 2016 at DHDS which replaced the manual log books in the unit. The Configuration Tool which is now an integral part of the system is a unique feature of the application by which user departments themselves can configure any logs in the operating units, without support from IT. eLog also has a search functionality which helps the users to access and view log entries faster.

A presentation of the various features of eLog and its implementation journey in Kochi Refinery was followed by a demo of the system. For a first hand feel of eLog, the participants also visited DHDS control room where the eLog was first implemented in Kochi Refinery.

eLog was highly appreciated by the Refinery role-holders and the workshop concluded with a way-forward for the implementation of eLog in other Refineries and Pipelines Business Unit. eLog had won the Ideas Award for Creative Stroke in Refineries Category in 2016.







First in MR, now in KR, roads from plastic waste

The novel concept of utilization of waste plastic in road construction developed by CRDC scientist Dr. Mahesh Kasture, has been implemented in Kochi refinery. Two stretches of road have been experiment in Mumbai Refinery also.

Project Department [KR] constructed a new road to Maintenance Shop at IREP Project area using modules created out of crushed plastic waste. A stretch of 600 square meter road has been prepared wherein about 4 tons of waste plastic has been utilized. The concept and the process are under experiment in various regions in India.

The trial waste plastic road laid in IREP area of Kochi refinery is the longest trial stretch laid using waste plastic modules amongst the stretched prepared so far. The road was inaugurated by the auspicious hands of Mr. Soman C.K., CGM, Operations (KR), in presence of Mr. Prasad K. Panicker , ED I/C - KR , Mr. Ramachandran P. S., ED-Projects and other dignitaries of KR on 27 November 2017.

First up at PDPP





Four tempered water coolers (PDO-E-011 1A/B &2 A/B) at the Oxo Alcohol unit by M/s Offshore Infrastructures Limited are the first equipment to go up at the PDPP site for the ongoing Petrochemicals Project. Congrats team PDPP on crossing this milestone on 22 December 2017.

CSR exhibition on Differently Abled Day



Kochi Refinery organised exhibition cum sale of products made by differently abled children from various NGOs to coincide with Differently Abled day on 3rd December 2017. Mr. Pius Mathew, Chief General Manager (Project Finance) and Mr. M.V. Prabhakaran, CGM(HR) inaugurated the exhibition in the presence of Mr. George Thomas, GM(PR&Admin) and KR CSR team.

Road Safety Training for Tanker Crew

Over 100 drivers and crew participated in the exclusive training programme on "ROAD SAFETY" conducted for LPG tanker truck crew in October 2017, in association with Security and Safety departments at KR.

Mr. Damien Gracious,CGM (HSE) inaugurated the programme, Mr. C.K. Soman, former CGM (O) I/C presided over the function. He emphasized the need of tanker truck crew to be more alert as any negligence from their part may lead to major accidents, causing damages to public and surroundings.

Mr. Kurian P. Alapatt, GM (OM&S), Mr. Babukumar K.G., DGM (Security Coordination), Mr. T Vinod Karunanidhi, DGM (OM&S) felicitated.

Mr. Sadik Ali, RTO (Retd) demonstrated the various aspects to be looked into while handling and transporting the petroleum products and the need for practising defensive driving. The training programme concluded with a live demonstration of operation of portable fire extinguishers by Fire & Safety dept.



Swachhta Pakhwada at KR

Mr. P. S. Ramachandran, Executive Director (Projects), leads the Swachhta Pledge at the outset of Swachhta Pakhwada in BPCL KochiRefinery on 19 December 2017. A stream of activities are being taken out for this conscious drive for cleanliness as part of the National Swachh Bharat Mission

52nd AGM of BPCL KRECCS



The 52nd AGM of BPCL KR Employees Co Operative Credit Society Ltd E-213, was organized on 23 November 2017. KRECCS declared a dividend of 25 % to its members.

The meeting was inaugurated by Chief Guest Mr. Babu Joseph, CGM (Maint). Mr. C. K . Soman, then CGM (O) I/c and Mr. P. K. Thampi CGM (Tech) felicitated. Educational awards to children of Society members, who scored highest marks in 10th & 12th final exams were distributed. Twelve employees retiring in November 2017 were also felicitated along with Mr. Gokul and Ms Athira Thampi who have been selected for Civil Service 2017 and Miss. Sri Lakshmi winner in Asian Throw ball Championship. Mr. Ajith Sen L. S., President, KRECCS presented the Performence Report and future plans of the Society. Mr. Jagadeesh Kumar S, Hon. Secretary presented the minutes of previous meeting. Other office bearers Ms. Girija V. R., Mr. V. K. Venugopal, Mr. Anil K. Nair, Mr. J. Ramesh Babu and Mr. P. M. Pradeepan also spoke.

KR team joins Customised programme for Project Management at IIM -A



Fourteen members of Kochi Refinery joined the customized Management Development Program on "Project Management" for officers of BPCL at Indian Institute of Management, Ahmedabad (IIM-A) organised by BP Learning Centre. The first of its kind, the five day programme had structured deliberations on various topics aimed at enhancing the competencies and building the skills required to manage and deliver projects effectively. KR members included M/s Bonu Lakshmana Rao(Projects), Shankar P.V. (Inspection), Unnikrishnan Nair P.K. (Projects), Raman R (Projects), Vimal Kumar P (Maint), Sahaya Libin Ment D (Maint), Jayakumar P (Projects), Anthony Solomon, (Estates), Prasad S (Maint), Kannan V (Maint), Krishank K Malwa (Maint) and Arun Therani Kesavan (E&C)

Congratulations



Ms. Bindu C R , w/o Mr. M. K. Ramachandran, DGM-PSM, on receiving the Regional Incentive Award for Best Teacher (PGT) of KVS Ernakulam Region (Kerala) from Mr. K Jayakumar, IAS (Rtd), former Chief Secretary, Govt. of Kerala and VC, Thunchath Ezhuthachan Malayalam University in the presence of Mr. S. M. Salim, Deputy Commissioner of KVS, (EKM) in TVM recently.



Mr. Ramachandran N/ Projects has won first prize in Essay (English) competition conducted at State level in connection with the Productivity Month celebrations- 2017.



BIMUJANG JIDAE

> ***....The original building was destroyed and this new station was built in its place. It is quite haunting to be in such a desolate building when you are so used to train stations being packed with people coming and going. There are no tracks now but on display is a section of rail that used to be in service to the North.....***

I took a flight to Seoul during Dussera.... on a festive mood . I read about the culture, the food and the people of Korea in an in-flight magazine. I was excited to find that Korea is the land of happy people. Everywhere, be it shopping malls, trains, restaurants, people always giggle as if to convey that a smile does you no harm so why not try to smile. Though I visited most of the interesting places like Busan, Seoul, Nami Islands and Gaganam and also savoured Bibimbap, the ultimate bowl meal, what I would like to share here is about the most talked about place of the recent times, the bimujang jidae, the de-militarised zone.

De-

The DMZ is a 4km wide and 240km long area that separates the North from the South. This area remains untouched for years still ridden with landmines, traps and electric fences. We started our journey early morning from seoul since DMZ is 55 Kms from seoul and the security clearance procedures was supposed to be time consuming. At the entrance of the DMZ territory our passports were checked and we had to submit an undertaking that we had planned to visit DMZ on our own will, in case of any casualty on account of an attack by North Korea, ROK (Republic of Korea) shall not be held responsible to the damage caused to us or our family.

On reaching Imjingak Park we had to shift to the special bus provided by the Korean administration. The buses moved in convoy. There were around 5 buses and on reaching the entrance of Dorasan station the bus was again inspected thoroughly by Korean Army. The first stop was Dorasan Station.

Dorasan Station

Dorasan Station used to connect North and South Korea. This station was constructed in order to improve the bilateral ties between north and South Korea. This is the closest train station to North Korea. You were supposed to be able to catch a train from here if traveling to the North Korea. But that didn't happen. And we have an empty train station. So many resources placed into building this, in an attempt of peace between North and South Korea that never materialized. Maybe someday when the North and South unify it will be a more active train station.

The original building was destroyed and this new station was built in its place. It is quite haunting to be in such a desolate building when you are so used to train stations being packed with people coming and going. There are no tracks now but on display is a section of rail that used to be in service to the North. Additionally, President Bush made a speech here and you can see his autograph on a piece of rail track equipment on display.

Bridge of No-return

The so-called "Bridge of No Return" crosses the Military Demarcation Line (MDL) between North Korea and South Korea. It was used for

prisoner exchanges at the end of the Korean War in 1953. The name originates from the final ultimatum that was given to prisoners of war brought to the bridge for repatriation: they could either remain in the country of their captivity or cross the bridge to return to their homeland.

However, once they chose to cross the bridge, they would never be allowed to return, even if they later changed their minds. The last time the bridge was used for prisoner exchanges was in 1968, when the crew of USS Pueblo was released and ordered to cross into South Korea via the bridge. The bridge was actively used by the North Koreans up until the Axe Murder Incident in August 1976, at which time the United Nations Command demanded that the Military Demarcation Line within the Joint Security Area be enforced and clearly marked. Within 72 hours, the North Koreans had built a new bridge (dubbed "The 72-Hour Bridge") on the northern half of the JSA and the original Bridge of No Return was no longer used.

The Korean War which broke out on 25 June 1950, leaving North Korea's railway network devastated. Through the Korean War, much of the infrastructure and many of the locomotives were destroyed.

On 31 December 1950, the Kyŏngŭi Line was divided. A train, consisting of the locomotive Matei 10 and 25 cars, going from Hanp'o to Munsan was ordered to stop at Changdan by the US Army, and was destroyed. The locomotive is now on display at Imjingak. Within the DMZ is a meeting-point between the two nations in the small Joint Security Area near the western end of the zone, where negotiations take place. There have been various incidents in and around the DMZ, with military and civilian casualties on both sides. The pain of getting separated can be felt when you reach the end of the bridge. At the end of the wooden bridge is an area filled with South Korea's national flags and colorful ribbons with messages penned by people for their dispersed families on the other side.

Another interesting thing at Imjingak near the locomotive is the Mailboxes which are available for letters to be posted. Postcards left in the red box are delivered to senders after a period of one year. One can also choose to post in the brown box, which will be shown in exhibitions.

3rd Infiltration Tunnel

The must visit place during the entire trip. It is said that there are around 20 Tunnels which were constructed by North Korea out of which only 4 have been identified by South korea. This Tunnel which is only 44 km from Seoul, is incomplete tunnel and was discovered in October 1978 following the detection of an underground explosion in June 1978, apparently caused by the tunnellers who had progressed 435 metres (1,427 feet) under the south side of the Korean Demilitarized Zone (DMZ). The incomplete tunnel is 1,635 metres long, of 1.95 m (6 ft 5 in) maximum high and 2.1 m (6 ft 11 in) wide. It runs through bedrock at a depth of about 73 m (240 ft) below ground. It was apparently designed for a surprise attack on Seoul from North Korea, and could, according to visitor information in the tunnel, accommodate 30,000 men per hour along with light weaponry. The third tunnel is called the "tunnel of aggression", as the South considered it as an act of aggression by the North.

Initially, North Korea denied building the tunnel. North Korea then declared it part of a coal mine, the tunnel having been blackened by construction explosions. The tunnel looks spooky and blackened. Visitors can enter either by walking down a long steep incline that starts in a lobby or via a rubber-tyred train with padded seats facing forward and backwards in rows for up to three passengers each. Mobiles and Photography is forbidden within the tunnel. The South Koreans have blocked the actual Military Demarcation Line in the tunnel with three concrete barricades.

Tourists can walk as far as the third barricade, and the second barricade is visible through a small window in the third barricade. The tunnel is indeed worth a visit and the construction, something to be admired.

And the experience, mal moshaneun, speechless!

-Biju T. N./Projects



REMiniscence'17

Retired Employees' Meet









The Retired Employees Meet 2017 is a very special event for KochiRefinery. For our respected invitees, it is a day to re-group with the Refinery fraternity, and for the organizing team, it is a day to revere and respect the many leaders and colleagues who have transformed our organization into what it is today. We also remembered those who were not amidst us.

A plant visit was arranged for those who wished to see the new developments at KR. All those who wished to see the plant were taken for a plant visit of around one hour duration which evoked the past memories . Also this was an opportunity for them to see the developments especially newly commissioned IREP Project. Participation including the spouse for plant visit was more than 300. This was well appreciated by our retired staff. Over 750 retired employees and spouses attended the grand get-together at Hotel Le Meridien , Kochi on 2nd December to refresh bonds of friendship and the memorable years at KR. Seniors led by Mr. B.K . Nair inaugurated the programme and Mr. K.P. Philip released the Directory for Retired employees. Mr. M A Mohamed Ali, Mr. C. K. Soman and Mr. Yousuf P.P. shared their thoughts at the Meet.

Mr. Prasad K. Panicker, ED(KR)i/c made a detailed presentation on the stupendous growth and promising future of Kochi Refinery. Mr. Prabhakaran M. V., CGM(HR) welcomed the gathering and Mr. Somasekhar S proposed the vote of thanks. The present leadership team of KR also honoured the very elder seniors in the retired fraternity. Ms. Kavitha Mathew , Asst Manager (PR) was the MC of the event that was coordinated by HRD team with active support of volunteers from various departments of KR.











Toast to an Amazing Refinery

SERVICE CITATION

30 Years



Sreenath V. I.
E & C



BANERJI P. K.
Maintenance

20 Years



BINDU RAJ S.
Finance



AMBILY. S.
IS



SHIJU P. K.
MFG



REJI V. P.
MFG



SARIN R.
MFG



Biju Poulose
MFG



SUBHASH B
MFG



MANJULAL K. K.
MFG



MUHAMMED K. M.
MFG



RAJESH E. R.
MFG



ANILKUMAR V.D.
OM & S



JOY P. V.
OM & S



BINOY C. NEDUMPURAM
P & CS



RAJESH K. P.
Projects

REDESIGNATION

FRANCIS PLACIDUS K. G.
CHIEF MANAGER (MEDICAL SERVICES)I/C

PROMOTIONS

P&CS	
Storekeeper - Martin Antony Alex M. A.	
General Workman-A - Binu C. S.	
Purchase Assistant- Jagadeesh Kumar S.	
Warehouse Clerk- Jayaraj K.	
Senior Fire Operator	
Jayalal N. B.	Vasudevan K.
Gopalakrishnan C. V.	Shaju M. V.
Santhosh Kumar K.	
HR	
Assistant- Benny K P	
Draftsman-B - Asokan M. B.	
General Clerk - Madhusoodanan P. K.	
Nurse-C - Deepthi Prasad	
MAINTENANCE	
General Craftsman (HEO/Mech)	
Dhanesh Kumar N. B.	
General Craftsman (Mach/Mech)	
Biju M. N.	Jinu Thomas
Senior Instrument Craftsman	
Anwar Muhammed K. P.	Tomy K. J.
Biju D.	Rajesh G. R.

General Workman-A	
Saneesh A. G.	Sujeesh K. V.
Pradeesh Kumar G.	Sajeesh B.
Jais C. P.	M.D. Ajharuddin
Umesh Kumar U.	Biju M.
Arun Joy	Vishnu N. U.
Sibulal S.	Athulraj E.
Guddu Kumar	Pancheti Suneel Kumar
Febin Antony	Sukesh V.
Ananthu G. Nair	Shaik Yasin Baba
Prasanth B.	Akash B.
Thushar T. K.	
Senior M/M Craftsman - Vasanthan M. R.	
MANUFACTURING	
General Workman-A	
Akhil S. D.	Saran K. S.
Amal Johny	Midhun Madhusudhanan
Sandeep Kumar	Habish Muhammed V.
Nithin Uday K.	Abdul Rahman M. A.
Poulose Babu N. P.	Sivaprasad V.
Ajith T. P.	Vishnu S. R.
Jithin R. S.	Jishnu Raj K. M.
Sanoj C. S.	Sanjay Kumar
Rahul E. R.	Arun P. C.
Sijen Ponseka	Arjun Aravind A. S.
Manu Sankar K.	Vishnu T Vijayan
Vishnu Anand	Raju R.

PROMOTIONS

MFG GW-A

Edwin Sebastian K.	Basil Alias
Sunny Jacob C.	Aneesh R.
Visakh V. R.	Nikhil R.
Arun Suresh	Netto Jaison
Operator-A	
SURESH G.	SENTHILKUMAR C.
Operator-B	
Mathew Benjamin	Anwar T. A.
Manu Issac	Dileep Kumar N.
Cliford C Dcruz	Joseph Dennis T.P.
Sanil Kumar M S	Bijush C. B.
Vinod T R	Sunilkumar T. P.
OM & S	
Assistant - Santhoshkumar R.	
General Workman-A	
Jerin George	Subeesh V.
Operator-A - Biju Jacob Parakal	
GMs' Offices	
Assistant - Suresh Babu	
P&U - UTILITIES	
Operator-A (Utilities)	
Babu Venkitesh P. K.	Anvar Sadath V. A.
Manoj B.	
P&U - ELECTRICAL	
General Workman-A	
Hemant Kumar Mahobia	Giridhar Kumar
Sreeraj Nampoothiri N.	Rongali Ravi
Pranesh Kumar	Vaisakh R.
Sreesankar K. S.	
Senior Electrical Craftsman- Sunish P. P.	
PROJECTS - C&S	
General Clerk - Radhakrishnan C. K.	
QC	
Shift Chemist-B	
Varun M.	Binil Jacob
Pratheesh V. G.	

NEWLY WED



Jithin S & Darsana Dasan/*P&U*

TRANSFERS

ELECTRICAL

Antony Savio M A (Sr. Manager)

ENVIRONMENT

Toms Varghese (Manager)

PETCHEM

Mukilan K. (D.G.M)

ENERGY

Suresh Kumar N (Chief Manager)

MANUFACTURING

Sajeesh V S (Chief Manager)

PROCESS SAFETY MANAGEMENT

Shiny Sara Varghese (Sr. Manager)

OM&S

Pradosh A B (Operator-B)

Jackson K V (Operator-B)

MANUFACTURING

Rajmanee (General Workman-B)

SUPERANNUATION



Mr Anil Kumar S. Who joined KR in HR- Security in August 1996 is retiring from P&CS department.

CONDOLENCE

Mr. Salam C. A. /QC lab on the sad demise of his father & mother.

Mr. Chachappan C. M. /QC lab on the sad demise of his father.

OBITUARY



We deeply mourn the sad demise of **Mr. E.S. Menon** who passed away on 29 November 2017. He retired from the service of Kochi Refinery in May 2001 as Director(Finance). He is survived by his wife Mrs. Jayasree Menon, sons Shyam and Vinod.



We deeply mourn the sad demise of **Mr. Cherian M.A.** who passed away on 16 December 2017. He retired in January 2012 from Maintenance department. He is survived by his wife Mrs. Annamma Cherian, daughter Ramya and son Robin.



Chacha Cup- 2017

The 28th Chacha Nehru Volleyball Tournament was inaugurated on 13 November 2017 at Cochin Refineries School , by Mr.Akhin.G.S, Indian Volleyball player and member of BPCL team. Ten teams from various schools of Ernakulam District participated in the tournament. SNVP School Tripunithura lifted the cup and Cochin Refineries School won the runners up position.

The chief guest of the closing ceremony Mr. Basil Philip, International Basketball player, (Central Excise & Customs) Kochi, distributed the prizes.



CBSE State Kalotsav-2017



Nanda Krishnan V (CAT-1) 1st Prize - Malayalam Elocution, **Alana Rajeev** (CAT-4) 1st Prize – Poster Designing, **Keerthana Rajesh** (CAT-2) 3rd Prize- Essay Writing Malayalam, have made CRS proud with their commendable achievements at the State Level CBSE Kalotsav-2017 conducted on 23 November 2017 at ICS Public School, Chittilapilly, Trichur.

Carroms Champion



Ashmitha.K VIII, CRS wins Runner's up position in the under 14 Girls Ernakulam District Carroms Championship.

CRS students spend a day at SEBI

An interactive Financial Education Programme was organized for the students of classes XI and XII Commerce on 9 November 2017. Mr. Salmanu. K. K , Asst. GM(SEBI), Kaloor facilitated an interactive session on the role of Securities Exchange Board of India (SEBI) in Primary and Secondary market and about Multi Level Marketing (MLM).

This helped the students understand the importance of managing money, financial planning, difference between saving and investments and how the magic of compounding works.



Mr. Suresh Kumar C, (Commerce) coordinated. Mr. Jayakrishnan (Commerce) and School Counsellor Ms. Kanchana Chandran accompanied them.

CBSE Regional Kalotsav-2017

A total of 32 students of CRS took part in the CBSE Sahodaya kalotsav -2017 for the preliminary level,conducted at various schools in Ernakulam District on 21 and 28 of October. The following are the prize winners . The first and the second prize winners qualified for the state level competition.



Winners in various categories

Item	POS	Prize Winners	CGRY
Elocution(Mal)	I	Nandanakrishnan V.	1
Painting Water Colour	III	Emy George	1
Essay Writing(Mal)	I	Keerthana Rajesh	2
Elocution Eng	I	Saya M. Tiju	2
Cartoon	II	Nandana P.P.	2
Elocution - Hindi	II	Neha S Paul	2
Recitation Eng.	III	Sameera Elizabeth Paul	2
Pencil Drawing	I	Shilpa S Menon	3
Versification English	I	Vimal Raj	3
Digital Painting	I	Devadath K. V.	3
Cartoon	II	Natasha Maria Davis	3
Extempore Eng	II	Vaishnavi Rajeev	3
Recitation Eng	II	Meghna Sateesh	3
Maapilapaattu Boys	II	Varghese T Job	3
Ottamthullal	II	Diya Venugopal	3
Guitar Western	II	Johan Dax	3
Flute	Ii	Abhijith B K	3
Story Writing (Mal)	Ii	Malavika J Nair	3
Story Writing Hindi	II	Gayathri J	3

Item	POS	Prize Winners	CGRY
Versification (Mal)	II	Irene Saju	3
Collage	II	Natasha Maria Davis	3
Essay Writing (Mal)	III	Malavika J Nair	3
Recitation Sanskrit	III	Veda Shaji	3
Essay Writing Hindi	III	Anushka Harish Lodwal	3
Poster Designing	III	Shilpa S Menon	3
Maapilapaattu Boys (Direct Entry)		Muhammed Aslam	4
Pencil Drawing	I	Gayathri Ganesh	4
Versification(Hindi)	I	Aditi G. Pai	4
Poster Designing	I	Alana Rajeev	4
Anchoring	I	Meenakshy Sudheer	4
Painting Water Colour	II	Gayathri Ganesh	4
Cartoon	II	Alana Rajeev	4
Digital Painting	II	Ajesh Kumar K A	4
Painting Oil	III	Gayathri Ganesh	4
Collage	III	J Devaprabha	4
Extempore Eng	III	Remitha Raveendran	4
Recitation Mal	III	Nandini N J	4
Recitation Sanskrit	III	Megha Laiju	4

Extempore

Remitha Raveendran, XI B bagged first prize (seniors) and **Vaishnavi Rajeev**, IX A, the second prize (juniors) in the English Extempore competition by YWCA, (Chittoor) on 11 Nov ,2017



Novice Novella



Reshma J. Nair, XI A and **Alana Rajeev**, XI B bagged the first prize in the *Novice Novella Nouveau Art Contest* of Chinmaya Vidyalaya, Vaduthala on 20 October 2017. Winners received certificates and cash prizes.

Kumite

Aswinkrishna T. S. S/o Shykumar T. C./OM&S. has secured First place in individual 'Kumite' in the 12th National Budo Martial Art Championship 2017. organized by Budo Martial Art Association of Kerala.



Debate



Remitha Raveendran, XI B was adjudged the Second Best Speaker in the Inter school English Debate competition held on 10 Oct 2017.





महारत्न



भारत पेट्रोलियम, है अब "महारत्न",
पचास साल की मेहनत का फल ।
ऐतिहासिक उपलब्धि, है एक विशाल,
इतिहास के स्वर्णाक्षरों में लिखा गया अपना नाम ।

कर्मचारियों के खून-पसीने से,
उन्होंने पाया, रात-तदन मेहनत एक कर ।
मिलजुल जात-पांत को भूलकर
बना दिया बी पी सी एल को "महारत्न कंपनी"।

हर एक कर्मचारी है, एक नन्हा रत्न,
जिनकी मेहनत का है यह फल ।
सब संगठित हुए ये लोग,
बनी हमारी कंपनी एक "महारत्न" ।

जिसकी शोभा है, विश्व भर में,
जिसका मस्तक है ऊँचा वैसे हिमालय ।
नहीं वैर-भाव किसी व्यक्ति में
सभी हैं करते अपना कर्म जी-तोड के ।

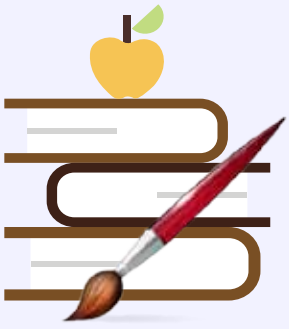
मिल-जुल कर, करते वे हर काम,
नहीं नामुमकिन, उनके लिए कोई काम ।
हिंदु-मुसलमान, सिख-इसाई हैं सब वे भाई-भाई
सुख-दुख अपना सभी साथ बाँटते ।

ऊर्जाशील रहेंगे, सदा सब इस उपलब्धि पर,
सभी का भविष्य हुआ, उज्ज्वल इस चुनौती पर ।
सभी हुए सम्मानित, इस सुंदर मुकुट को पाकर
हैं गर्व, हर व्यक्ति को इस प्यारी उपलब्धि पर ।



यामिनी के कुमार,
W/o ए कृष्णकुमार /
(परियोजना)

पेट्रोलियम शब्दावली



Lock out - **तालाबंदी**
Locus standi - **अधिस्थिति**
Log - **अभिलेख**
Logic - **तर्क शास्त्र**
Logo - **प्रतीक चिह्न**
Long term Loan - **दीर्घकालीन ऋण**
Loss - **हानि**
Loss in transit - **मार्ग में हानि**
Lower - **निचला**
Loyal - **निष्ठावान**
Lubricant - **स्नेहक**
Lubrication - **चिकनाई**
Lump sum - **एक मुश्त**
Lunch - **मध्याह्न भोजन**
Machinery - **तंत्र, व्यवस्था**
Madam - **महोदया**
Magazine - **पत्रिका**
Magnitude - **महत्ता, पैमाना**
Mailing list - **डाक सूची**
Maintenance - **अनुरक्षण, देखभाल**
Maintenance charges - **रख रखाव खर्च**
Major - **मुख्य**
Major projects - **मुख्य परियोजनाएं**
Major works - **बडे निर्माण कार्य**
Majority - **बहुमत**
Malnutrition - **कुपोषण**
Malafide - **दुर्भावपूर्ण**
Malpractice - **कदाचार**
Manhour - **श्रम घंटे**
Manpower - **श्रम शक्ति**
Management - **प्रबंध, प्रबंधन**
Managing committee - **प्रबंध समिति**
Mandatory - **अनिवार्य**
Manhole - **प्रवेश छिद्र**
Manifest - **मालसूची**
Manifesto - **घोषणा पत्र**
Manual - **पुस्तिका**
Map - **मानचित्र**
Margin - **हाशिया**
Margin of profit - **लाभ की गुंजाइश**
Marine Insurance - **समुद्री बीमा**
Marked capacity - **अंकित क्षमता**
Market potential - **विक्रय संभावना**
Marketing - **विपणन**
Marketing network - **विपणन जाल**
Marking &sorting - **चिह्न लगाना और छाँटना**
Marksheet - **अंक सूची**
Martyr - **शहीद**
Mass media - **जनसंचार माध्यम**
Mass production - **पुंज उत्पादन**
Mast - **मस्तूल**
Master key - **सर्व कुंजी**
Master Plan - **महायोजना**
Materials - **सामग्री**
Maternity - **प्रसूति**
Matter - **विषय, मामला**



പറഞ്ഞല്ലോ, വേറെ ആരെങ്കിലും അയാളെ തിരിഞ്ഞു നോക്കാൻ ഉണ്ടായിരുന്നോ?"

"ഞാൻ ആരാണെന്ന് നിനക്ക് ആദ്യം പറഞ്ഞു തരാം. ഞാനാണ് വിധി. എന്നെ ഭാഗ്യമെന്നും ചിലർ വിശേഷിപ്പിക്കാറുണ്ട്. ഞാൻ തന്നെയാണ് വിധാതാവ്. ഇനി നിന്റെ ചോദ്യങ്ങളുടെ ഉത്തരങ്ങൾ ഞാൻ തരാം. ആദ്യത്തെ കാര്യത്തിൽ അവൻ ജീവിച്ചിരിക്കണമെന്നും അവന്റെ കുടുംബം വഴിയാധാരം ആകരുതെന്നും ഞാൻ ആദ്യമേ തീരുമാനിച്ചിരുന്നു. അതിന് നിന്നെ ഞാൻ കരുവാക്കി. ഞാൻ വിചാരിച്ചിരുന്നെങ്കിൽ ആ ലോട്ടറി ഒരാഴ്ച മുമ്പേ അവന് കിട്ടുമായിരുന്നു. അവൻ സ്ഥിരമായി ലോട്ടറി എടുക്കുന്നവനാണ്. നീ അല്ലെങ്കിൽ ലോട്ടറി. എങ്ങനെയായാലും ഞാൻ അവനെ രക്ഷപ്പെടുത്തുമായിരുന്നു. എന്റെ സഹായം അർഹതയുള്ളവർക്ക് ഞാൻ അത് നൽകിയിരിക്കും. പിന്നെ രണ്ടാമത്തെ കാര്യത്തിൽ നീ പറഞ്ഞപോലെ, അവനെ ആശുപത്രിയിൽ കൊണ്ടു പോകാൻ ആരുമില്ലായിരുന്നു. അവൻ രക്ഷപ്പെടണമെന്ന് ഞാൻ ആഗ്രഹിച്ചിരുന്നില്ല. അവനെ നീ രക്ഷപ്പെടുത്തി. അന്ന് രാത്രി തന്നെ അവന് എന്താണ് സംഭവിച്ചത്?"

"അവൻ രാത്രി കട്ടിലിൽ നിന്ന് നിലത്ത് വീണ് മരിച്ചു."

"ഇന്നത്തെ സംഭവം ഞാൻ നിനക്ക് വിശദമാക്കിത്തരാം. ആ പിച്ചക്കാരിക്ക് വെള്ളം കൊടുക്കുമ്പോൾ നീ അവരുടെ കണ്ണുകളും മുഖവും ശ്രദ്ധിച്ചു നോക്കിയിരുന്നോ? ഓർത്ത് നോക്ക്, എവിടെവെച്ചെങ്കിലും അവരെ ഇതിനു മുമ്പ് കണ്ടിട്ടുണ്ടോ? നീ കണ്ടിരിക്കില്ല. നിന്റെ അച്ഛന്റെ ആദ്യ ഭാര്യയായിരുന്നു അവർ. നിന്റെ അമ്മയുടെ മൂത്ത സഹോദരി. അവർക്ക് കുട്ടികളില്ല എന്നു പറഞ്ഞ് നിന്റെ അച്ഛമ്മ അവരെ പുറത്താക്കി. നിന്റെ അച്ഛനെ കൊണ്ട് നിർബന്ധിപ്പിച്ച് നിന്റെ അമ്മയെ കല്യാണം കഴിപ്പിച്ചു. നിന്റെ അച്ഛമ്മ കാരണം അവർ ഭ്രാന്തിയും പിച്ചക്കാരിയുമായി. എല്ലാ സ്വത്തിന്റെയും ഏക അവകാശി നീയുമായി. ഇന്നലെ അവർ വെള്ളം ചോദിച്ചപ്പോൾ നീ വായിൽ ചായ ഒഴിച്ചു കൊടുത്തു. ഭക്ഷണം വാങ്ങിച്ചു കൊടുത്തു. നിന്റെ അച്ഛമ്മയുടെയും നിന്റെ അച്ഛന്റെയും ഒരു ജന്മത്തെ കടമാണ് നീ അതുകൊണ്ട് വീട്ടിയത്. ഇനി പറയൂ, നീ ആരെയാണ് സഹായിക്കുന്നത്? ആരാണ് നിന്റെ സഹായത്തിന് പാത്രമാകുന്നത്? എല്ലാ നിയന്ത്രിക്കുന്നത് വിധിയാണ്. വിധിയാണ് നിന്നെക്കൊണ്ട് ചെയ്യിക്കുന്നത്. നിങ്ങളെല്ലാവരും എന്റെ കൈയിലെ ചതുരംഗക്കരുക്കൾ മാത്രമാണ്. എന്റെ ലക്ഷ്യങ്ങൾ നിറവേറ്റാൻ ഞാൻ കരുക്കളെ ആവശ്യം പോലെ എടുത്ത് ഉപയോഗിക്കും. ഒരു കരു കൈയിൽ കിട്ടിയാൽ അത്, അല്ലെങ്കിൽ മറ്റൊന്ന്, അത്രയേയുള്ളൂ."

താൻ കണ്ടത് സ്വപ്നമോ, അതോ മനസ്സിന്റെ വിഭ്രാന്തിയോ എന്തുമാകട്ടെ, ഇനി ഒരിക്കലും സൽക്കർമ്മൾ ചെയ്തിട്ട് അത് വിളിച്ചു പറയില്ലെന്ന് ദാമു ഒരു തീരുമാനത്തിലെത്തിയപ്പോഴാണ് മകൾ അച്ഛൻ എഴുന്നേൽക്കാത്ത തെന്താണെന്ന് നോക്കാൻ വന്നത്.



ശോഭപ്രഭു
പ്രോജക്ട്സ്

ആരോഗ്യം

ആരോഗ്യം തിരിച്ച് പിടിക്കാം



പെരുകിവരുന്ന പ്രമേഹം മുതൽ കാൻസർ വരെയുള്ള രോഗങ്ങൾക്ക് എന്താണ് പരിഹാരം? ജീവിതശൈലീരോഗങ്ങൾക്ക് മരുന്നിനേക്കാൾ ജീവിതശൈലി ക്രമപ്പെടുത്തേണ്ടതിനാണ് പ്രാധാന്യം നൽകേണ്ടത്. ദേഷ്യം, പക, അസൂയ, വിദ്വേഷം മുതലായവ പതിയെപ്പതിയെ ഹൃദ്രോഗത്തിലേക്കും മസ്തിഷ്ക്കാഘാതത്തിലേക്കും കാൻസറിലേക്കും നമ്മെ നയിക്കും. എല്ലാവരോടും സാഹനുഭൂതിയോടെ പെരുമാറുമ്പോൾ നമ്മുടെ ശരീര രസതന്ത്രം മാറിമറിയുകയും നാഡിമിടിപ്പ് സാവധാനത്തിലാകുകയും രക്തസമ്മർദ്ദവും പ്രമേഹവും കുറയുകയും അന്തഃസ്രാവ ഗ്രന്ഥികൾ ആവശ്യത്തിന് ഹോർമോണുകൾ ഉൽപ്പാദിപ്പിക്കുകയും ചെയ്യുന്നു. മനസ്സ് സംഘർഷഭരിതമായാൽ കോശതലം വരെ അതിന്റെ ദോഷഫലങ്ങൾ ഉണ്ടാകും. പലതരം രോഗങ്ങളായി ഇത് പ്രത്യക്ഷപ്പെടും എന്ന് ഗവേഷകർ തെളിയിച്ചിട്ടുണ്ട്.

ജീവശരീരം 120 ട്രില്യൺ കോശങ്ങളെ കൂട്ടിയോജിപ്പിച്ച ബൃഹത്തായ ഒരു സംവിധാന മാണ്. അവ ശരീരത്തിനുള്ളിൽ ആഹ്ലാദത്തോടെ പരസ്പരം സഹകരിച്ച് പ്രവർത്തിക്കുന്നു. കോശങ്ങളുടെ എണ്ണത്തിന്റെ പത്തിരട്ടി സൂക്ഷ്മ ജീവികളും നമ്മുടെ ശരീരത്തിൽ ജീവിക്കുന്നുണ്ട്. അവയെ കൊല്ലുന്ന മരുന്ന് നമ്മുടെ ആരോഗ്യവും ഇല്ലാതെയാക്കും. ഡോക്ടർമാർ രോഗാണുക്കളെന്ന് പറയുന്ന സൂക്ഷ്മ ജീവികൾ ശരിക്കും നമ്മുടെ സ്നേഹിതരാണ്. നമ്മളെല്ലാം ഒരുമിച്ചാണ് ജീവിക്കുന്നത്.

മനുഷ്യന്റെ ദഹനേന്ദ്രിയത്തിന് അനുയോജ്യമായത് സസ്യാഹാരമാണ്. അതും വളരെ കുറഞ്ഞ അളവിൽ മാത്രം മതി. മാംസം ദഹിച്ച് കിട്ടാൻ കൂടുതൽ സമയവും ഊർജ്ജവും ചിലവഴിക്കേണ്ടിവരും. ശരീരത്തിലെ അമ്ലക്ഷാര അനുപാതം തെറ്റും.













REGIONAL LANGUAGE

தமிழ் பகுதி

அகர முதல எழுத்தெல்லாம்
ஆதி பகவன் முதற்றே உலகு

வணக்கம். தமிழ் மொழி திராவிட குடும்பத்தின் ஆதி மொழியாகவும், உலக கலாசாரத்தின் ஆணி வேராக திகழ்பவையாகும். மேலும் உலகம் முழுவதும் பரவலாக பேசப்படும் மொழியாகவும் உள்ளது. இன்று வரை கிடைத்துள்ள கல்வெட்டுகளில் சுமார் 60% காணப்படுவது தமிழாகும். சுருக்கமாக சொன்னால் கல் தோன்றி மண் தோன்றா காலம் முதல் உள்ளதாகும் தமிழ்.

சங்கம் வளர்த்த தமிழ் இன்று உலகளவில் அனைத்து நாடுகளிலும் பரவலாக பேசப்படுகிறது. தமிழ் மன்னர்களால் கட்டப்பட்ட கற்கோவில்களும், அணைக்கட்டுகளும், சிற்பக்கலைகளும் இன்றும் விஞ்ஞானத்திற்கே சவாலாக அமைந்துள்ளது. இன்றும் உலகத்தின் மிகப்பெரிய கம்போடியாவிலுள்ள (அங்கோர்வாட்) கற்கோவிலும், தஞ்சை பெரிய கோவிலும் கட்டியவர் நம் தமிழ் மன்னர்களே. கட்டிடம், சிற்பம், கல்வி, இலக்கியம், விஞ்ஞானம், சங்கீதம், மருத்துவம், ஆட்சி என பன்முக துறைகளிலும் உலகிற்கே முன்னோடிகளாக விளங்கினர். மொத்தத்தில் உலக நாகரீகத்திற்கே வித்திட்டவர் தமிழர் என்றால் மிகையல்ல.

அன்னையும், பிதாவும் முன்னறி தெய்வம் என்றும், எழுத்தறிவித்தவன் இறைவனாவான் என உலகிற்கு எடுத்து இயம்பியவளும் தமிழ் மூதாட்டியே. பொது மனித வாழ்விற்கு தேவையாக உலக மறையாக கருதப்படுவது திருக்குறளே ஆகும். கொடைக்கு ஓர் பாரியும், நீதிக்கு ஓர் மனுநீதி சோழனும் உதாரணமாக திகழ்ந்தவர்களும் தமிழ் வேந்தர்களே. பாக்களாலும், நெறிகளாலும் பக்திக்கு வித்திட்டு சமய குரவர்களால் இறைவனை உருகச் செய்ததில் தமிழர்களின் பங்கு அளப்பக்கரியது. பன்முக பரிமாணங்களால் மிளிரும் தமிழர்களின் பங்கு அளவிட முடியாததாகும்.

இச்சாதனைகளை இன்றளவும் நம் தமிழர்கள் நித்தம் புது சாதனைகளை செய்து வருகின்றனர். தமிழரையும், தமிழரின் தமிழோடுள்ள உணர்வுகளையும் பிரிக்க முடியாததாகும்.

தமிழ்பால் உள்ள காதலை மனதில் வைத்து, மதிப்பும் வைத்து இப்பகுதியை தமிழர்களுக்காக வழங்குவதில் நம் கம்பெனி பெருமை கொள்கிறது. மேன்மேலும் பல நல்ல இலக்கியங்களுக்காகவும், செய்திகளுக்காகவும் உங்களுக்காக காத்திருக்கிறது இப்பக்கம். 2018 புத்தாண்டின் தொடக்கத்தில் இதனை உங்களுக்கு சமர்ப்பிப்பதில் பெருமகிழ்ச்சியும் உவகையும் அடைகிறோம்.



Yuvraj S/HR

அனைத்து தமிழ் உள்ளங்களுக்கும் இனிய பொங்கல் நல் வாழ்த்துக்கள்.



திரு. ஏ. பி. ஜே. அப்துல்கலாம்
(அணு விஞ்ஞானி, முன்னாள் இந்திய ஜனாதிபதி)



லட். சி. வி. ராமன்
(பாரத ரத்னா மற்றும் நோபல் பரிசு பெற்றவர் இயற்பியல்)



திரு. எஸ். ஆர். நாதன்
(சிங்கப்பூர் முன்னாள் ஜனாதிபதி - 2001-2011)



திரு. சுப்ரமண்யம் சந்திரசேகர்
(இயற்பியல் நோபல் பரிசு பெற்றவர்)



திரு. ஏ. ஆர். ரஹ்மான்
(இசையமைப்பாளர்)
(2 முறை ஆஸ்கர் விருது பெற்றவர்)



திரு. சுந்தர் பிச்சை
(கூகுள் - தலைமை நிர்வாக அதிகாரி)



திருமதி. எம். எஸ். சுப்புலக்ஷ்மி
(கர்னாடக சங்கீதம் - பாரத ரத்னா விருது பெற்றவர்)



திரு. ரகுராம் ராஜன்
(ஆளுநர், இந்திய ரிசர்வ் வங்கி (முன்னாள்), முக்கிய பொருளாதார நிபுணர் - சர்வதேச நாணய நிதியம் IMF

நூற்றாண்டின்
உலகறியும்
தலைசிறந்த
10 தமிழர்கள்



திரு. விஸ்வநாதன் ஆனந்த்
(கிராண்ட் மாஸ்டர் - செஸ் - 5 முறை உலக சாம்பியன் வென்றவர்)



திரு. சிவ நாடார்
(ஸ்தாபகர் - எச்.சி.எல். மற்றும் சிவ நாடார் பல்கலைக்கழகம்)

New Year Greetings

BPCL మహా రత్న కంపనీ అయిన ఈ సందర్భములో నా సంతోషము, ప్రశంసలు తెలియజేయుచున్నాను. Cochin Refineries అనే subsidiary company నుంచి Kochi Refineries గాను, merger తర్వాత BPCL (KOCHI REFINERY) అవ్వడం జరిగింది. IREP Commissioning ద్వారా మహా రత్న కంపనీ status అందు కొనింది. ఈ పురోగమనములో పాల్గొనిన అందరికీ శిరస్సు వంచి ధన్యవాదములు తెలియ చేయుచున్నాను. ఈ నూతన సంవత్సరములో అందరికీ హార్దిక శుభాకాంక్షలు. ఈ కంపనీలో పని చేయుట గొప్ప భాగ్యముగా భావించుచున్నాను.



Chinna Gopa Naik/Mfg



Raghavendra D. M.
OM&S

హొస బేళకిగే ఎల్లరిగూ స్వాగత
సంతోషదిరలి నిమ్మ ముఖదలి
ప్రీతియిరలి నిమ్మ హృదయదలి
సిహియాద నేనపుగళు నిమ్మ మనదలి సదా తుంబి తుళుకాడలి.
ఎల్లరిగూ హొస వర్షద హార్దిక శుభాశయగళు

YUMMY Christmas

Bharat Petroleum
energising lives

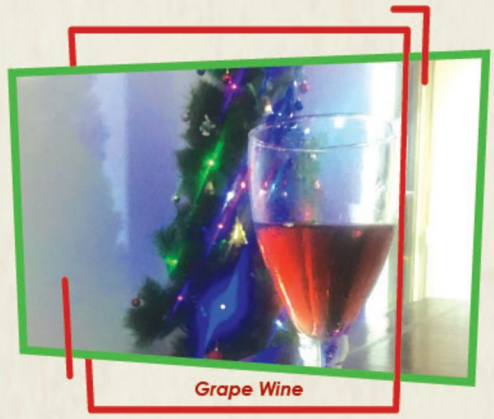
FACEBOOK POLL ENDS ON 30 JAN 2018

Here are the 3 finalists of the Yummy Christmas contest



Red Velvet Cake

Mridula Vinod
W/o Vinod T/ P&U



Grape Wine

Jenny C L
Finance



Passion Fruit Wine

Ancy Johnson
PR & Admin

- The RECIPE for these Yummy delights will be available on BPCL KR Facebook from 15th January 2018.
- Facebook poll will be open up to 3:00 pm on 30 Jan 2018.
- We invite you to try the recipes and vote for the winner.
- To vote for the winner, first LIKE & Follow Kochi Refinery on FB and then join the hunt for the Yummy Christmas winner.
- The finalist who recives maximum LIKES only on KR FB will win the bumper prize !



Follow us on: /BPCLKochiRefinery

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Art Gallery



ശ്രീ ബിജുമോൻ ബി. പെൻസിൽ ഉപയോഗിച്ചാണ് സച്ചിൻ തെണ്ടുൽക്കറുടെ ഈ ചിത്രം വരച്ചിരിക്കുന്നത്. വാട്ടർ കളർ, ഓയിൽ എന്നീ മാധ്യമങ്ങളുപയോഗിച്ചും ഇദ്ദേഹം ചിത്രങ്ങൾ വരയ്ക്കാറുണ്ട്. കുട്ടിക്കാലത്ത് സ്കൂളിൽ പഠിക്കുമ്പോൾ സമ്മാനങ്ങൾ ലഭിച്ചിട്ടുണ്ട്. ഉപജില്ല, ജില്ലാതല മത്സരങ്ങളിൽ പങ്കെടുത്തിട്ടുണ്ട്. തിരുവല്ലയാണ് സ്വദേശം. തിരുവല്ലയ്ക്കടുത്തുള്ള കടമ്മനിട്ടയിലെ അനുഷ്ഠാന കലയായ പടയണിയ്ക്കുള്ള കോലങ്ങൾ തയ്യാറാക്കുന്നതിന് സഹോദരനുമൊത്ത് സ്ഥിരമായി പോകാറുണ്ട്. പച്ചപ്പാളയും കുരുത്തോലയും കമുകിൻ പാളിയും ഉപയോഗിച്ചാണ് പടയണിക്കോലങ്ങൾ തയ്യാറാക്കുന്നത്. പഞ്ചഭൂതങ്ങളെ സൂചിപ്പിക്കുന്ന കറുപ്പ്, പച്ച, ചുവപ്പ്, വെള്ള, മഞ്ഞ എന്നീ പ്രകൃതിദത്ത നിറങ്ങളാണ് ഇതിൽ ഉപയോഗിക്കുന്നത്. മടൽബ്രഷ് ഉപയോഗിച്ചാണ് വരയ്ക്കുന്നത്. ചിത്രരചനയെ പരിപോഷിപ്പിക്കുവാൻ ഈ പടയണിക്കോലമൊരുക്കൽ സഹായകമായി.

എന്തുകൊണ്ട് സച്ചിന്റെ ചിത്രം വരച്ചു എന്നു ചോദിച്ചാൽ 'മികച്ച കായിക പ്രതിഭാസമെന്നതിലുമുപരി ഇദ്ദേഹത്തിന്റെ സ്വഭാവത്തിലെ മഹനീയതയെ വളരെ ഇഷ്ടപ്പെടുന്നു' എന്നാണ് ഉത്തരം.

വരച്ച ചിത്രങ്ങൾ ഉപയോഗിച്ച് ഒരു എക്സിബിഷൻ നടത്താൻ ആഗ്രഹമുണ്ട്. ഭാര്യ ദീപ, രണ്ടാൺകുട്ടികൾ ഹരിഗോവിന്ദ്, ദേവാനന്ദ്. നലാം ക്ലാസ്സുകാരൻ ഹരിഗോവിന്ദ് ചിത്രങ്ങൾ വരയ്ക്കാറുണ്ട്.



ബിജുമോൻ ബി.
ഒ.എം. ആൻഡ് എസ്

QUIZ BOWL JAN 2018

Quiz Master: **S. Parameswer** (HR)

Send your entries to Mr. SP Quiz Bowl, Jwaladhwani desk, BPCL Kochi Refinery, before 20.1.2018



1. Identify this logo ?
   Clue : _ I _ E _ S _ _ _ B International
2. What is PET Scan in medical parlance ?
3. Researchers at the University of Illinois, U.S. have recently announced discovery of new form of matter called----------
4. What is a Snellen Chart used for ?
5. Who is appointed as the new chairman of the Petroleum and Natural Gas Regulatory Board?
6. What is the full form of fssai ?
   Under which Ministry is this autonomous body established ?
7. What does Funicular or Cliff Railway mean ?
8. Which word is chosen by Oxford Dictionary as the Word of the Year 2017
9. Five chemicals have been banned from use in firecrackers by the Supreme Court. Arsenic and Lead are the two. Which are the other three.
10. Identify this traffic sign in India.
11. Which two Organisations started the Tropical Cyclone naming system in the year 2000 ?.
12. Identify this logo ?

Answers to QB-Dec 2017 :

1. Air Berlin **2**. Latin for "under judgment" **3**. Something that is unnecessary. Eg. If a friend gives you fashilon tips, although you have expressed no interest in receiving them **4**. Paradeep, Odisha **5**. Sore thumb caused by the frequent use of the thumbs to press buttons on PDAs, smartphones or other mobile devices **6**. Fluorescent Blue/ Sanchi Stupa **7**. Kent Water purifier **8**. Gathering foreign intelligence, engaging in counter-terrorism, promoting counter-proliferation, advising Indian policymakers, and advancing India's foreign strategic interests **9**. political violences and fight against Endosulfan menace in Kasaragod, Kerala / Literally means the play of multiple transformations **10**. Muzhappilangad Drive-in Beach, Kannur **11**. Black Tuesday **12**. ABN AMRO

Winner of QB-December 2017: Vijayan A N, Finance



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