



# JWala DHwani

*Celebrations  
Galore*



ജാലധനി ജ്വാലാധനി NOV 2018  
Energising BPCL Kochi Refinery



**Team Kochi Refinery privileged to interact with  
Mr.D Rajkumar, C&MD at the 10<sup>th</sup> edition of  
Mr. R Ramachandran, D(R), Mr. K Padmakar, D(R),  
Mr. Ajay Kumar, MD(BPRL) were present.**



with the senior leadership of BPCL led by  
TOWN HALL organized on 30 October 2018.  
D(HR), Mr. N Vijayagopal, D(F) designate and  
present at this unique programme.



## INSIDE



### 06 Message

C&MD's message

### 07 Highlights

C&MD launches "Food Grade Quality - Hexane", a new product from Kochi Refinery, BPLC Kochi Refinery receives "Own Crude"

### 12 Digital KR

Plant Dashboard 360 on mobile launched at Kochi Refinery

Process Safety Management (PSM) web-portal goes live

Advisory Service Management takes the eWay at Kochi Refinery

Project Monitoring App now on Mobile

Portable Detector Tracking system launched at Kochi Refinery

### 15 Project Highlights

PDA Extractor stands tall at PDPP

### 16 Celebrations Galore

BPLC Senior Leadership visits Kochi Refinery

### 20 People

Retirement Service Citation

### 24 Young Minds

Release of Cyber Policy for schools as part of project BIKOS

### 26 हिन्दी

प्रकृति का खेल, मानव की सीख प्यार

### 27 മലയാളം

നീള....  
കുറവ്

### 29 Regional

കർമ്മശാല

### 30 Celebration

Ayudha Pooja at Kochi Refinery

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## Celebrations galore

The month that went by was action packed with many launches and great new beginnings at Kochi Refinery. The BPCL Board had its first Board Meeting in Kumarakom and they also took time to spend an entire day with team KR. We are fortunate that at a special edition of the Town Hall, the unique platform for leaders to interact with Kochrefiners, the top team led by our C&MD Mr. D Rajkumar himself, energized us with the absolute micro-insights of the future plans of BPCL.

This is in close continuation to the appreciation we received from the Standing Committee of Parliament for Petroleum & Natural Gas that unanimously applauded Kochi Refinery on the top-class performance delivered non-stop.

Joining the digitization drive across the Corporation, KR has launched various portals to ease online monitoring and operations. These efforts are clearly towards transforming KR into a 100% e-Office as we prepare ourselves for global big data challenges.

We have also initiated branding revamps across KR aiming at an all-new visual identity for the biggest Refinery of BPCL. To start with we have introduced the ever energizing waves of BPCL on the Refinery fascia at the main entrance with a complete facelift including a lush garden of seasonal blooms at the main admin-block. To enjoy the transformations at KR that we have to bring in together, I invite employees once again to take a closer look at brand Kochi Refinery and send us your suggestions and feedback in the Know Your Refinery online survey that will be open on KR Intralink up to 30 December 2018.

In this sparkling Diwali issue, we bring you all about the new launches and celebrations with the promise that together, we have many, many more still to go.

Wishing you all the happiness of the festive seasons that follow one after the other.

Warmly  
Editor



ജ്വാലധ്വനി  
NOV 2018  
Vol. LIII/11



**Message from  
Chairman &  
Managing Director**



***“ May this Diwali bless us all with bright sparkles of contentment, may we all attain inner illumination and may the supreme light of lights make us attain the inexhaustible spiritual wealth of the Self! ”***

Dear Friends,

I write to you today on the auspicious occasion of Diwali! The festival of lights has always been a harbinger of joy and prosperity. And this year is no different. It is with great pride that I share with you that BPCL is once again on the verge of scoring an “Excellent” MOU rating, maintaining its record of outstanding ratings. BPCL has been able to consistently achieve such extraordinary ratings only due to the persistent hard-work and sincere commitment of the entire BPCL family. My heartiest congratulations to Team BPCL!! I am confident that going forward we shall continue to relentlessly chase our dreams and emerge winners in all facets of business.

May this Diwali bless us all with bright sparkles of contentment, may we all attain inner illumination and may the supreme light of lights make us attain the inexhaustible spiritual wealth of the Self! Wishing you and families a very happy, safe and prosperous Diwali!

D Rajkumar

**happy  
diwali**





## C&MD launches “Food Grade Quality - Hexane”, a new product from Kochi Refinery,

With the primary aim to promoting agro-processing, BPCL Kochi Refinery has launched the speciality product Food Grade Quality Hexane (FGQ Hexane) that could turn out to be a boon for the agricultural sector of Southern India.

Mr. D Rajkumar, Chairman & Managing Director, BPCL, flagged off the first truck carrying FG Hexane in the presence of Mr. R Ramachandran, Director (Refineries), Mr. N Vijayagopal, Director (Finance) designate, Mr. Prasad K Panicker, Executive Director (Kochi Refinery) i/c, Mr. Sharad Sharma, Executive Director (Industrial & Commercial), Mr. PS Ramachandran, Executive Director (Projects), KR and Mr. Jayesh Shah, Executive Director (HR), KR.

This is the first time that Kochi

Refinery is producing a ‘Food Grade Quality’ product. FGQ Hexane is a light distillate produced from special cut Naphtha where the Hexane rich stream is extracted and purified to meet the required specification. This product is mainly used as solvent in the solvent extraction units for spices and vegetable oil. This is also used by drug and pharmaceutical industry and also as solvent in other specialty applications. Much of FGQ Hexane used in the country is imported and therefore would be helpful to the Make In India initiatives.

FGQ Hexane is being produced in the Isomerization unit of Kochi Refinery which came up as part of the Integrated Refinery Expansion Project (IREP). Kochi Refinery currently has the capacity to produce 5000

tonnes per year. In the product portfolio at Kochi Refinery, FGQ Hexane is 21st in line.

“This is a landmark in the history of Kochi Refinery since we are now producing a food grade quality product. This would help the food processing industry and the farming community. Kochi Refinery had always tried to promote farming based industries in South India. In the late 1990s, Kochi Refinery had developed the Natural Rubber Modified Bitumen (NRMB) through its Research & Development Center and had provided an alternative scope for rubber which is increasingly cultivated in Southern India. Thereafter, NRMB has been a prime product of KR which helped in laying better roads. Launching of FG Hexane is a similar kind of effort,” shared Mr. Prasad K Panicker, ED (Kochi Refinery).



## Team Kochi Refinery energised to welcome C&MD and Board of Directors

Team Kochi Refinery was delighted to receive our respected Chairman & Managing Director, Mr. D Rajkumar and Board members, Mr. R Ramachandran, Director (Refineries) and Mr. K Padmakar, Director (Human Resources), along with Mr. N Vijayagopal, Director (Finance) designate and Mr. Ajay Kumar, Managing Director, BPRL at Kochi Refinery on 30 October 2018.

Mr. Prasad K Panicker, ED I/c (Kochi Refinery), Mr. P S Ramachandran, ED (Projects), Mr. Jayesh Shah, ED(HR) and Mr. Murali Madhavan P, CGM(Operations) extended a very warm welcome to the senior leadership of BPCL on their maiden visit as a team to KR after the first Board Meeting in Kerala. The Board meeting was convened in Kumarakom on 29 October 2018 and the

senior leadership visited Kochi Refinery on 30 October 2018. Mr. Rajkumar lit the traditional lamp along with the Board Members to mark the auspicious beginning of a very eventful day at KR.

C&MD shared insights into the future plans of BPCL at the special edition of Town Hall, the unique platform for leaders to interact with Kochrefiners. This was his first address to a bigger group of officers of KR. Over 200 officers were fortunate to meet and interact with our C&MD and members of the Board.

The Board members were then treated to a sumptuous traditional Kerala meal on a leaf.

C&MD later inaugurated and blessed various new sites, installations and projects at KR in the august presence of members of the BPCL Board, invites and a totally elated team Kochi Refinery.





## 'A very learning experience at a well-managed facility,' Petroleum Secretary says about Kochi Refinery



**K**ochi Refinery extended a warm traditional welcome to Petroleum Secretary Dr. M M Kutty IAS on his maiden visit to Kochi Refinery.

Mr. D Rajkumar, Chairman & Managing Director (BPCL), Mr. R Ramachandran, Director (Refineries), Mr. N Vijayagopal, Director (Finance) designate along with Mr. Prasad K Panicker, ED I/c (Kochi Refinery), Mr. PS Ramachandran, ED(Projects), Mr. Jayesh Shah, ED (HR) and Mr. Murali Madhavan P, CGM(Ops) welcomed him at the Refinery on 03 November 2018.



ED I/c (KR), made a detailed presentation of Kochi Refinery. Further to detailed interactions with the senior leadership of BPCL & KR, Petroleum Secretary was taken on a plant visit where he expressed his interest of seeing the upcoming MSBP site in closer proximity. Dr. Kutty also interacted with the team members of MSBP.

"A very learning experience at a well managed facility," he wrote in the visitors book. Dr. Kutty also shared that "The projects of fuel quality improvement, petrochemicals project and the proposed polyols projects are of great relevance in today's context." He also planted a sapling at the KR Ecopark.





## BPCL Kochi Refinery receives “Own Crude”

BPCL Kochi Refinery received the first parcel of Bharat Petroleum Corporation Limited's own crude oil on 22 October 2018. This marks another far-reaching step of BPCL towards enhancing energy security of the country.

At a function at the Control Room of BPCL Shore Tank Farm at Puthuvyppeen, Dr. M Beena IAS, Chairperson, Cochin Port Trust, switched on the pumping of the BPCL 'Own Crude Oil' from the vessel "MT Gemini Sun" in the presence of Mr. Ajay Kumar, Managing Director, Bharat Petro Resources Limited (BPRL) and Mr. Prasad K Panicker, Executive Director (Kochi Refinery). From BPCL Mr. Murali Madhavan, Chief General Manager (Operations),

Mr. Subramoni Iyer, Chief General Manager (Technical), Mr. K V Satheesh Kumar, General Manager (Assets), Mr. Kurian P Alappat, General Manager (Oil Movement & Storage) and Mr. George Thomas, General Manager (PR & Admin) and from Cochin Port, Mr. Joseph Alappat, Deputy Conservator, Mr. Krishnaraj, Dock Master and Mr. Kiran Trivedi, Chief General Manager (IT) Crude of BPRL were present.

The arrived parcel is part of the equity crude oil cargo of Bharat Petro Resources Limited (BPRL), a wholly owned subsidiary of BPCL which has been set up with an aim to provide partial supply security of crude and hedging of price risks. This is the first delivery of BPRL to the parent company.

The vessel "MT GEMINI SUN" was loaded with 7,00,000 Barrels of Das blend crude oil from Lower Zakum Concession on 15 October 2018 from the loading terminal at Das Island operated by Abu Dhabi National Oil Company (ADNOC) Offshore.

This tranche of BPRL's share of equity oil received at Kochi marks the first direct sale to its parent company, BPCL. The vessel had reached Kochi Refinery SPM, the crude oil receipt facility which is 19.2 km in deep sea off the Puthuvyppeen coast, on 22 October early morning. During the month of July 2018, approximately 1 Million Barrels of BPRL's share of equity crude oil from the Lower Zakum Concession was lifted by M/s Bharat Oman Refineries Ltd.



Bharat Petro Resources Limited (BPRL) a 100% subsidiary of Bharat Petroleum Corporation Limited and its Exploration and Production arm, currently has participating interest (PI) in 25 blocks spread across 8 countries along with equity stake in two Russian entities operating four producing assets. BPRL along with ONGC Videsh and Indian Oil Corporation Limited acting jointly as the Indian Consortium have been awarded 10% Stake in Lower Zakum Concession, Offshore Abu Dhabi. The Concession has a term of 40 years effective from March 9, 2018. The other shareholders in the Lower Zakum concession are JODCO (10%, a wholly owned subsidiary of Japan's INPEX Corporation), China National Petroleum Corporation (10%), Italy's ENI (5%) and France's Total S.A. (5%).

The Abu Dhabi National Oil



**Dr. M. Beena IAS, Chairperson, Cochin Port Trust switching on the pumping of BPCL own Crude Oil to Kochi Refinery.**

**Others (L to R): Mr. George Thomas, GM (PR & Admin), Mr. Murali Madhavan, CGM (Operations), Mr. Kurian P. Alappat, GM (Oil Movement & Storage), Mr. Prasad K. Panicker, ED (KR), Mr. Ajay Kumar, MD, Bharat Petro Resources Limited and Mr. Nidhin Manoj, Panel Engineer, BPCL.**

Company (ADNOC) holds a majority 60% stake in the concession. The current production of this field is approximately 400,000 bopd and Indian Consortium annual share will be about 2 MMT per year with BPRLs share of equity oil being approximately 12,000

bopd. Acquisition of stake in Lower Zakum Concession by the Indian Consortium marks entry of BPRL in the highly prospective UAE region and is consistent with its stated strategic objective of adding high quality producing assets to its existing E&P portfolio.

## First ATF truck to Kannur Airport flagged off



The first truck carrying Aviation Turbine Fuel (ATF) for Kannur International Airport started off from BPCL Kochi Refinery on 19th October.

The truck carrying 29 Kilo Liters of ATF that is used as fuel for aircrafts was flagged off by Mr. V Thulasidas IAS, Managing Director, Kannur

International Airport Limited (KIAL), in the presence of Mr. Prasad K Panicker, Executive Director (Kochi Refinery), Bharat Petroleum Corporation Limited (BPCL), Mr. Vijay Ranjan, Chief General Manager (Operations & JV - Aviation), Mr. Prasantha V Kammath, Aviation Manager (West), BPCL & CEO of BKFFPL.

This is another milestone in the development of KIAL which is all set for commercial operations and is to be inaugurated shortly. The truck that has been flagged off has been given a warm welcome at the fuel farm at KIAL on 20 October and would become the first parcel for storage in the farm.



## Plant Dashboard 360 on mobile launched at Kochi Refinery

Aligning with the corporate vision on Digitization, Kochi Refinery made a big stride by launching an application for monitoring plant functions & energy monitoring. The Plant Dashboard 360 aids in decision-making among managers by providing insightful plant data at their finger tips.

Mr. Subramoni Iyer (CGM, Tech) launched the application in the august presence

of Mr. A K Kaushik ED (IS), Mr. Ramachandran LL (GM IS) and Mr. Sreekumar R (GM Manufacturing) and the IS team on 09 October 2018. The application, automatically computes and delivers to all its users information that includes - full time shift performance, product targets and deviations, operating cost, flare loss, heater efficiency; status of major equipment under maintenance,

open and closed permit status, IP21 and unit results in the best comprehensible format anywhere and anytime, for better informed decisions.

The application is currently rolled out in CDU-2 as a pilot project, which shall soon be extended to all units in Kochi Refinery and sister refineries of BPCL. Authorized users will be able to access the application from mobi-connect.

## Process Safety Management (PSM) web-portal goes live



The PSM Vision 2020, an inspiring initiative to implement Process Safety Management principles on a full-fledged basis throughout Kochi Refinery commenced last year.

Teams were formed and activities are in full progress for implementing the elements across KR by March 2020. This will help KR in setting new benchmarks in the field of Process Safety and would also give an opportunity to further streamline processes and also strike a good balance between processes and safety thus enhancing safety and productivity.

Mr. Prasad K Panicker, Executive Director (Kochi Refinery), launched the exclusive web portal for PSM in the august presence of Mr. Damien Gracious, CGM (HSSE), Mr. L L Ramachandran, GM (IS), and Mr. M K Ramachandran, DGM (PSM) as well as the members of



## Advisory Service Management takes the eWay at Kochi Refinery

Moving ahead with our Digitalization motive and paper less approval system, Kochi Refinery's Advisory Services at Kochi Refinery has taken the e-way by opting for a digitally streamlined application to change their work process.

Mr. Ninan C S, General Manager (Advisory Service), Kochi Refinery, in the presence of Mr. A K Kaushik, Executive Director (IS), Group Refineries, Mr. Ramachandran L L, GM(IS), Kochi Refinery and the IS team launched the new application Advisory Service Management System (ASMS) on 9 October 2018.

The ASMS automates the major functionalities of Advisory Service Department and has 3 modules. The first one is for Planned Inspection that manages planning, scheduling, implementation and status update of all planned inspection activities in a financial year. The second module, Welder Qualification that helps executing department to request for welder qualification and Inspection section to schedule and conduct welder qualification test and generate E-Welder card based on test and past test records. The third one is Clamp and Putty module that helps to understand plant health based on the statistics

provided by Dashboard on the number of Clamps and Putty.

ASMS also provides extensive reports and status views to support users. The Unplanned Inspection and QAP is under development. With ASMS in force, paper based approval process has been removed enabling users to see past data for reference. Totally guided by the central vision of Digitization, ASMS will bring proficient decision making and monitoring at all levels of the work process.

With the Vision of Digitization, ASMS will bring proficient decision making and monitoring though all the work process.

the collaborating teams on 24 October 2018.

The PSM Portal was envisaged and developed as an effective online platform to monitor the progress of PSM project in Kochi Refinery and to facilitate knowledge sharing. Advanced design tools have been used to make the PSM portal totally user friendly.

The PSM Portal is paper less monitoring system which provides online KPI monitoring for all 17 PSM elements. It contains data of all Process Safety Events and Recommendations and provide feature to update status. It also helps Element Owner/Unit Champions to view overall status with one click. The Library has an E-learning module

and online learning material is available for learning at one's personal convenience. Useful power point presentations and literature are also being added.

The New application 'PSM Portal' which has all the element procedures and PSM Manual can be accessed on 'KR Intranlink'.

## Project Monitoring App now on Mobile

Project Management has always been one of the core competencies of BPCL KR and the same has enabled us to complete mega projects like IREP within time and without any cost overrun. During IREP, apart from regular MIS reports released on a weekly and monthly basis, need was felt for real time monitoring of the site jobs. Accordingly a daily progress report was introduced in excel format. Data was collected on a daily basis from over 75 contractors and consolidated. The report was a handy tool not only for the Project Managers at KR but also for the top management.

Considering the man hours consumed on a daily basis for collection and consolidation of data, an attempt was made to automate the data collection and consolidation



process through an app. The Planning section of the Projects Department collaborated with the KR IS team in this humble endeavour. The app has been developed completely in an in house manner by the IS team with able guidance, support and assistance from ERPCC.

Over an years' hard work culminated on 8th October when Mr. Ramachandran P S, ED (Projects) launched the app in the august presence of Mr. Kaushik A K, ED (IS) Group Refineries, Mr. Suresh John CGM (Projects) and Mr. Ramachandran L L GM (IS)."

## Launching e-Log of Electrical section

Close on the heels of digitalization drive in the corporation, Electrical section of power and utilities department in collaboration with IS department has developed a new e-Log portal to bring the internal reports of electrical section under one platform. With the introduction of the user friendly e-Log portal, all job related reports are now one click away to all officers in electrical section.

The new portal would provide a consolidated real time view of the different jobs being carried out within the department thereby making job tracking really easy and hassle free. On 09.10.18, Mr. Mohanlal A, GM (P&U) launched the



e-Log portal of P&U (Electrical) in the presence of Mr. Anil Kumar Kaushik, ED (IS) and Mr. L L Ramachandran, GM (IS), Mr. Viswanathan K, DGM (P&U) , Mr. Mathew P Thomas,

DGM(P&U) and other officials in P&U and IS department .

The new portal is expected to give the much needed boost to the digitalization drive of Kochi Refinery.



## Portable Detector Tracking system launched at Kochi Refinery

With major strides towards digitization happening at BPCL, the Instrument section in Maintenance department of Kochi Refinery along with IS department has launched the Portable Detector Tracking System. This system is to track the details of portable gas detectors that are part of the mandatory PPEs to work in the plant area.

Mr. Babu Joseph, CGM (Maintenance) launched the application in the presence of Mr. A. K. Kaushik, ED(IS), Mr. L.L.Ramachandran, GM (IS), Mr. I. Jayakumar, DGM (Maintenance), Mr. K. B. Sriram, CM(Maintenance) and other officials of IS and Maintenance department on 9 October 2018.

The Portable Gas Detector is mandatory for all employees

entering the plant area where hazardous gas-leaks can be expected. In the event of a gas leak this device alerts the holder with a beep and flashing light and also displays the concentration of gas in the immediate vicinity. The calibration of the gas detectors are valid upto three months and beyond that time, the detector will cease to function if not re-calibrated.

The new portable detector tracking system gives a complete dashboard of the users in each section along with the calibration details of each device. The BPCL mailing system

has been interfaced with this tracking system to generate automatic mails to remind users about the calibration due date and overdue details to the custodians in every section.

The web based application is available to authorised users on KR Intralink under HSE Applications.



## PDA Extractor stands tall at PDPP

PDA Extractor (PDA-V-011) a major column and also the longest single piece ODC column of PDPP, was successfully erected at the Acrylic Acid unit on 05 October. The column is 43 Meters tall and weighs around 237 MT. Hearty congratulations to all stakeholders of M/s Offshore, EIL & BPCL on this mission accomplished for the prestigious Petrochemical Project coming up at BPCL Kochi Refinery.



# Celebration



C&MD and Board members plant saplings at the KR Ecopark

It was indeed celebrations galore of the projects and initiatives under top blessed and launched by the Chair BPCl on his recent visit with m

We bring you a snapshot of the m historic day 30 C



Mr. Damien Gracious, CGM(HSE) explains about the fully equipped new Emergency Control Room at the new Fire Station at KR



CGM(Operations) Mr. P Murali Madhavan details to the senior leadership team at the Main Co Kochi Refinery



Foundation stone for the 22 KV Substation for MSBP laid by the gracious hands of Mr. Rajkumar C&MD, BPCl in the presence of Mr. R Ramachandran, Director (Refineries), Mr. Prasad K Panicker, ED(I/c), KR and Mr. PS Ramachandran, ED(Projects) and team leads of MSBP



C&MD opens the PDPP Cooling inaug

# ns Galore

at Kochi Refinery when many of  
o projects implementations were  
rman and Managing Director of  
embers of the BPCL Board.

memorable moments from the  
October 2018:



C&MD and Board Members with Fire crew of Kochi Refinery



...ailing about IREP  
ontrol Room of



At the Utility Control Room



C&MD interacts with panel engineers of Main Control Room, Kochi Refinery



A jubilant moment with C&MD after the launch of the 33 KV substation of PDPP



...e main valve of  
g Tower to mark its  
uration





## C&MD switches ON the 33 KV substation of PDPP

Mr. D Rajkumar, C&MD, BPCL switched on the 33 KV PDPP substation in the presence of Mr. R Ramachandran, Director (Refineries), Mr. Prasad K Panicker, ED(I/c), and the PDPP team. The substation caters to the Electrical load of PDPP unit. The total load of PDPP unit is 36MW.

The substation building is a four storey building with two cable cellar and two switchgear floors. Ground and first floor cater to Acrylic acid and Oxo Alcohol loads, while the second and third floor caters to Offsite and Acrylates load. The incoming power is at 33kV voltage level from Refinery, connected to 33kV State of art Gas Insulated Switchgear (GIS). Utilization is at 6.6kV for large Motors and 415V for other loads.

### I. Salient Safety features

- ▶ Rear door interlock with unique castle interlock key for High Voltage switchgears- Prevents accidental live panel opening.
- ▶ Chicken mesh in panel cut-outs – Helps in fall protection during construction.
- ▶ LOTO for project site – 'Lock Out Tag Out' to secure live Electrical circuits.

### II. Innovations in Electrical system

- ▶ Form 4b for Low voltage- Terminals for external conductors are not in the same cubicle as the functional unit, but in protected compartments that are separated and closed.
- ▶ AFLR 0.5 category for High Voltage panels – Better Arc Flash Protection for operators.
- ▶ Closed door operation for Low & Medium Voltage circuit breakers.
- ▶ Aerial bundled cable (ABC) for distribution of 11kV construction power-Protection from cable damage, Ensures uninterrupted construction power.
- ▶ Solar powered hybrid standalone lighting for Offsite areas.

### III. Energy Efficiency measures

- ▶ 100% LED lighting for Plant/ Control room and Substation- Lesser power consumption, long life of Light fixtures.
- ▶ Star rated distribution Transformers for PDPP.
- ▶ Energy Efficient motors IE2 for classified area & IE3 for Non classified area.
- ▶ Precise Electric heat tracing for less Fuel & Energy demand with Self Regulating cables.





## C&MD inaugurates world class Utility Control Room of Kochi Refinery

Amidst a cheerful gathering of the KR Power and Utilities team, Mr. D Rajkumar, Chairman and Managing Director, BPCL inaugurated the most modern Utility Control Room (UCR) at the biggest PSU Refinery in India on 30 October 2018. Witnessing the moment were Mr. R Ramachandran, D(R), Mr. K Padmakar, D(HR), Mr. N Vijayagopal, D(F) designate, Mr. Prasad K Panicker, ED(I/c) KR, Mr. PS Ramachandran, ED(Projects), Mr. Jayesh Shah, ED(HR), Mr. Mohanlal Menon, GM(P&U) and the P&U team who had been planning for this moment ever since they started working towards the all new UCR with highly integrated features. The UCR is an Integrated Control Room for Utility and Electrical operations.

The walk through from the entrance to the main control room at the UCR, one of the longest facility centre inside KR, is an experience in itself with walls that tell you the story of the making of the UCR and the team effort behind a well thought out facility. The ambience is one where you find a pleasant connect with nature as well as the cultural splendour of Kerala that are beautifully interwoven into a highly technical work space like a control room full of panels, systems and silence apart from the whirring of machines and systems. There is something uniquely welcome about the UCR, that one cannot but stop to wonder. Here are some of the salient features of the world class UCR at KR :

**The Distributed Control System (DCS)** is for monitoring and control of: Gas turbine based captive



power generators of combined generation capacity of 160 MW • Steam turbogenerator of capacity 2.5 MW • Oil & Gas fired Utility Boilers of combined capacity 710 tons per hour • Heat Recovery Steam generators (HRSGs) of capacity 460 tons per hour to recover heat from gas turbine exhaust gases • Instrument air and plant air system • Cooling water system of combined circulation rate of 75500 m<sup>3</sup>/hr • Centralized Boiler Feed Water system for Utilities and Process unit except DHDS Area • Auxiliary fuel system for gas turbines and utility boilers.

**Electrical Control system (ECS)** is for monitoring and control of power generation and distribution with following features- • Synchronization facility • Motor level load shedding • MVAR controller • Substation control and monitoring • UPS, battery charger and capacitor banks monitoring • ECS to IP21 and ECS to DCS connectivity • Alarms, events logging and trending • Auto SMS and e-mail features.

### Salient features of Power & Utilities

**Utilities System:** • Steam Generation in Very High Pressure (VHP) level • Multiple fuel flexibility for gas turbines and boilers • Auxiliary firing in HRSGs for efficiency improvement in cogeneration • Centralized auxiliary systems for better operational flexibility. • Dedicated cooling water system for critical utilities for enhanced reliability • Reverse Osmosis based demineralization plant for treating effluents • Improved condensate management with segregation at source and treating at condensate polishing unit • Emergency instrument air backup for utilities as well as process units • Real time optimization software for reduction of utilities cost.

**Electrical System :** • Electrical Control system for centralized monitoring and control of IREP electrical system • Automatic grid power factor control through ECS • Power trading through open access • Centralized fire alarm monitoring system at main fire station • Advanced Numerical relays for faster protection and fast acting differential protection for cables using FO • Gas Insulated Switch gears at CPP for distribution of power from generators and KSEB • Battery chargers, UPSs, Battery Banks for critical control applications • Emergency Diesel Generator back up for critical drives.

## Pius Mathew bids adieu

Mr. Pius Mathew, Chief General Manager (Project Finance) is bidding farewell to us this month.

"The time has come for me to say adieu to this great organization, BPCL. I joined the erstwhile Cochin Refineries Ltd in the year 1987 and after a long innings of 31.5 years, as I look back I can say with a sense of pride and satisfaction that the organization has provided me with varied and rich experience as well as good opportunities for an excellent career" he shared.

Mr. Pius Mathew was part and parcel of a vibrant and growing organization which, over the years, matured from a stand-alone refinery in Kerala to today's largest PSU refinery in the country and part of a Fortune 500 organization. He is very happy to have grown along with the organization as he received the opportunity to interact and make friends with a large number of professionals across the Corporation.

He thanks all his seniors as well as colleagues and friends for the support, guidance and co-operation received in his wonderful journey with Kochi Refinery. He also thanks the BPCL management for all the facilities and support in his career. "I am sure the organization is poised to take giant leaps ahead and will scale greater heights in the years to come and I wish all of you the very best in your assignments and the activities you undertake. I shall always cherish the good memories of the days that I spent in the organization with all of you," he shared.



Mr. Pius Mathew has worked in almost all sections of Finance before taking over as CGM (Project Finance). He was also a member of various associations and decision making groups in the organization. He took his Bachelors in Commerce from St Albert's College, Ernakulam and is a Fellow Chartered Accountant of The Institute of Chartered Accountants of India.

His wife Mrs. Minu Mathew is also an FCA practising in her own firm Minu & Thomas. They are blessed with two sons, Ajay Mathew who completed his engineering and is working with Ernst & Young, Los Angeles, USA and Joseph Mathew, also an engineer working with FEV, Germany. Ajay is married to Rutuja, an engineer with Google, San Francisco and they have settled in the US.

JwalaDhwani wishes Mr. Pius Mathew and his family peace and good health all through the years ahead.

His address:

Pallikunnel, Palliparambukavu,  
Tripunithura P.O., Kerala - 682 301.  
E mail: piusmathew@gmail.com  
Mobile: +91 94477 07743.



## Memories last forever

After 15 years of service in Indian Air Force, Mr. Geevarghese joined in erstwhile Cochin Refinery on 08 Oct 1996 in the Security Section of HR department and he is bidding farewell after a stint of two decades plus at KR.

He moved to the Finance department in 2013 from where he retires. Over the years of his journey in this great organization, he is happy and satisfied and is proud to have been sincere to his work during his entire service.

Mr. Geevarghese appreciates the work environment as fully satisfying with highly cooperative friends and colleagues in the

## GRP bids goodbye

Mr. G Radhakrishnan Pillai, who is bidding goodbye to us after his 3 decade plus with Kochi Refinery has many memories fleeting back to him from day one of joining in 1983.

As a young Mechanical Engineer from TKM College of Engineering, Kollam, he felt he had come to a jungle of steel pipes and columns. Back then, GRP as he is fondly called, knew everyone by name as it was a smaller group. Now the company has doubled in size several folds and the people count has increased that many folds too. "Friends, teammates and colleagues, I cherish all in my wonderful tenure at one of the biggest Refineries in India," he expressed.

Starting with OM & S Dept, RGP also worked extensively in Maintenance, Projects and Engineering & Construction from where he superannuates as GM(E&C) i/c. "I take each day as they come and I give my team the freedom to do the best for delivering the tasks. The capacity expansions of the Refinery, each time, are long and compelling learning lessons as we have to understand newer technologies and deal with different people. I cherish each project, the involvement and support from all ends," he shares with pride.

His wife Jayasree and he are blessed with two sons. Rahul and Jishnu. Rahul did his Electrical Engineering from NIT Durgapur and is working with Siemens Bangalore. His wife Neetu is a Civil Engineer who was on a Young India Fellowship with Janagraha, New Delhi. They have been blessed with a son, Surya.

"Losing our son Jishnu was the biggest blow in

company. He conveys his sincere gratitude to all in CRS for giving the best education to his children. Mr. Geevarghese's wife Chinnama retired from SBT, Ambalamugal. Their son Eldo G Zacharia, is an Assistant Professor in Saintgits College of Management Studies Pathamuttom, Kottayam and he is married to Alby.

Their daughter Babitha Geevarghese is working as a nurse in Australia. She is married to Mr. Sanjo who is working with a hotel industry in Australia. They have an eight month old son David.

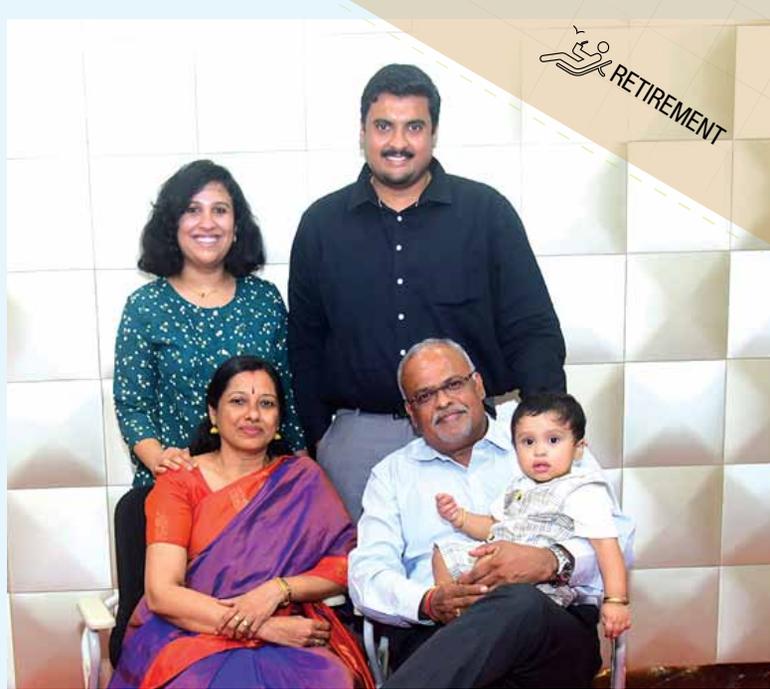
Post retirement Mr. Geevarghese would

like to spend more time with his family and do all that he missed out while in service for the nation and subsequently for the nation's biggest PSU Refinery at Kochi.

Jwaladhvani wishes Mr. Geevarghese and his family a healthy and happy retired life.

His address :

House No. PRRA 216, Parapallil Road,  
Thiruvankulam P.O.  
Tripunithura- 682305  
(M): 94460 855488  
(E): geevarghese\_94@yahoo.com



our life," Jayashree shared recalling the fatal bike accident. "Our life seemed to stop entirely after that and we have him in our prayers each day," she said softly.

GRP is open to new ventures and is looking forward to more travelling. "I will miss the excitement of seeing the Refinery and all the actions around personally every day. It's the personal joy of being part of a company and seeing it grow that makes you stay on. Ultimately when we have to let go, the very pattern of our life changes. My best wishes to all for taking the Refinery to greater heights," he shared.

JwalaDhwani wishes GRP and his family peace and good health as they take on new days and years ahead.

His address:

Jyothis, Palace Nagar, Thiruvankulam  
email: grkpill@gmail.com  
(M): 94950 01015

## ANNOUNCEMENT

Retired employees of BPCL can also purchase from KR society on all days from 7.00 am to 6.00 pm. For more details contact: 0484-282 2903



## SERVICE CITATION

35 Years



Antony Mohan K J  
Maintenance



Ramachandran P S  
Projects



Joseph Kunju P J  
OM&S



Thomas Mathew  
P&U



Muralidharan Nair A  
HR



Bharathan E M  
Maintenance



Mohanakumar N R  
OM&S

15 Years



T P Sayooj  
P&CS

### NEWLY JOINED



Navneet Kumar Pandey /  
General Workman B  
(Trainee)

## SUPERANNUATION



**Mr. Damien Gracious K D,**  
Who joined KR in Technical Services Department in September 1983 is retiring from HSE department.



**Mr. Joseph Abraham**  
who joined KR in Maintenance department in November 1982 is retiring from P & U department.



**Mr. Sasi O S**  
who joined KR in Maintenance department in August 1983 is retiring from P & U department.



**Mr. Gopalakrishnan K K**  
who joined KR in HR department in December 1983 is retiring from Maintenance department.



**Mr. Mohanan P T**  
who joined KR in HR Security department in June 1994 is retiring from the same department.



**Mr. Chandran M K**  
who joined KR in HR-Security department in July 1999 is retiring from OM & S department.

30 Years



Jayakumar K  
OM&S



George Joy P X  
P&CS



Abdul Rahim M K  
P&CS



Prabhakaran K P  
OM&S



Emmanuel Melroy Pereira  
Maintenance



Joseph D'cruz  
P&CS



Murugan N  
Maintenance

### DEPUTY GENERAL MANAGER

Process Engineering - Sridhar K.

### SR. MANAGER

P&CS - Abhilash K A

P & U

Rajesh Kumar Kamat, Akash B, Arun M S

### FROM OTHER SBUS

Management Trainee - Alex Mathew

TRANSFER

### NEWLY WED



**Biju M / Maint and Anjali M C**

### NEWLY WED



**Abhijith (QC lab) and Mamatha**

### FELICITATIONS

**N Sreekumar** / P&U-Utility and Soumya P on the birth of a daughter

**Sheyam S** / P&U-Utility and Anju J on the birth of a daughter

**Chintha Jaya Kiran Raj** / P&U-Utility and Kamala blessy on the birth of a Son



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

Send your entries to Mr. SP Quiz Bowl,  
Jwaladhvani desk, BPCL Kochi Refinery,  
before 25.11.2018



1. Identify this logo. 
2. What is the meaning of the Sanskrit word DEVASWOM? How many Devaswom Boards are there in Kerala.
3. What is Ambush Marketing? Give one simple example.
4. Which is the only Indian Company featuring in the list of 50 genius companies of 2018 brought out by the TIME Magazine.
5. Why is the Volkswagen Beetle in the news ?
6. What is the MYERS-BRIGGS Test ?
7. Which country's Passport has been named world's most powerful. What is India's ranking according to Henley Passport Index ?
8. What is the main function of the oldest Paramilitary Force of India "Assam Rifles". What was its earlier name ?
9. Who is an Adjunct Professor ?
10. What is the English word which means "Willingness to do things that bring advantages to others, even if it results in disadvantage for yourself".
11. Shaphee Lanphee, a traditional textile fabric, is a GI product from which State ?
12. Identify this logo 

#### Answers to QB-October-2018 :

1. PNGRB 2. Neeraj Chopra 3. S J Vasifdar Committee 4. Syndicate Bank 5. Akshay Kumar 6. cVigil 7. Five. They are Habeas Corpus, Mandamus, Certiorari, Prohibition and Quo Warranto 8. Green 9. Bajaj Electricals Ltd. 10. 3rd party insurance has to be bought upfront 3 years for cars and 5 years for 2 wheelers 11. Bongu Biryani also known as bamboo biryani 12. Croatian Airlines

**Winner of QB-October-2018 : Vignesh Siva, Mfg**



## Release of Cyber Policy for schools as part of project BIKOS

Cyber crime is emerging as a major challenge in all walks of life. Taking note of this CBSE has urged affiliated schools to create awareness and sensitize stakeholders of the dangers.

In the wake of this **Better Internet for Kids Online Safety (BIKOS)** was launched on 21 October 2017 at Cochin Refineries School. This initiative aims to sensitize students, teachers, parents and other stake holders of the rising threats in the cyber world and also to formulate a Cyber policy for schools as per CBSE requirement. The ideation was initiated by CRS team with a huge backing from Former School Board Chairman Mr. M V Prabhakaran, Mr. P Vijayan Ex-IGP Kochi Range, Kochi Cyber Cell, BPCL-KR IS Dept. and the 30 member school heads .

A multi phased strategy was implemented during a period of six months. This included:

- ✓ Brainstorming session by Principals
- ✓ Group discussion by School Counsellors
- ✓ Formation of Cyber clubs at schools
- ✓ Meeting of Parents and Student Council members of Cyber clubs
- ✓ Online safety awareness sessions for students, teachers and parents in respective schools
- ✓ Cyber Security Certification Programmes by Cyber Research Centre, Amrita University.

Project Coordinator of BIKOS, Premlata Shaji, Computer Science teacher at Cochin Refineries School stated that all these provided inputs to identify the challenges schools have been facing in the war against Cybercrimes and this has led to the culmination of a comprehensive Cyber policy for schools that can be used as a reference to address any issue concerning Cyber crime involving children. All the stake holders had just one aim - to envisage a Cyber Policy for schools without hurting relationships.

Highlights of the Cyber Safety Policy for schools

are as follows: ♦ School Sensitive Data protection  
 ♦ Security Zone assignment ♦ Network and Communication security ♦ Incident handling procedures at school ♦ User awareness and education ♦ Roles & Responsibilities of all stakeholders ♦ Ready to use checklists and templates

The project which started with 15 schools has evolved, with presently 30 schools joining in to arrive at this policy which would provide a uniform, regularised handbook for ready reference. Hopefully this endeavour will provide the school with a reference to deal with unpleasant cases and prepare the template for a safe learning environment.

The Cyber Safety Policy was officially released on on 11 October 2018 Thursday at Cochin Refineries School by Mr. D. PremKamath, Advocate & Cyber Law Consultant, High Court of Kerala, Mr. L L Ramachandran, General Manager BPCL-KR, representatives from Kochi Cyber Cell, Kerala Police, BPCL KR, Principal Mala B Menon and Project Coordinator Premlata Shaji. Principals, Vice Principals, Senior teachers from 30 schools were present for the function.

The details of project BIKOS are available at [www.bikos.in](http://www.bikos.in)

### CONGRATULATIONS

Mr. Adarsh V P, S/o Vijayakumar SR, AS Dept, has secured the First Position in "LINE FOLLOWER B07" held during the Breeze -2018 at Shiv Nadar University, Noida. He has also secured 2nd position in "Line Follower" conducted by 67th Milestone in BML Munjal University.





## KUDOS ATL Team

Our ATL team comprising of Arvind Chandran, Alen K Bijoy and Ananthu Krishnan of Std. VIII has won the first prize in the Tatva Technology Competition held at NIT CALICUT on 12, 13 October. They won the First Prize for Paper Presentation and for Project Expo. Kudos to the winners as they faced a tough competition where there were participants from the length and breadth of India including college students.

## JYOTHIS - 2018

The Cultural Fest, titled JYOTHIS - 2018 - '19 was split into two phases. The individual events were conducted on 14 September. The renowned playback singer – Mr. Madhu Balakrishnan was the Chief Guest and the famous violinist Mr. Viswanathan was felicitated during the hour long inaugural



function. The group events were held on 29 September. After a fierce competition, Prithvi House emerged as the Champion House.

## 'Celebrating Kalam'

'Celebrating Kalam' competitions were conducted by the Dept. of Instrumentation - CUSAT on 15 October 2018

**Meghana Satish** of Class X bagged the first prize for Extempore.

**Nandana P** and **Gayathri K Abhilash**, both of class X bagged the second Prize in Quiz.

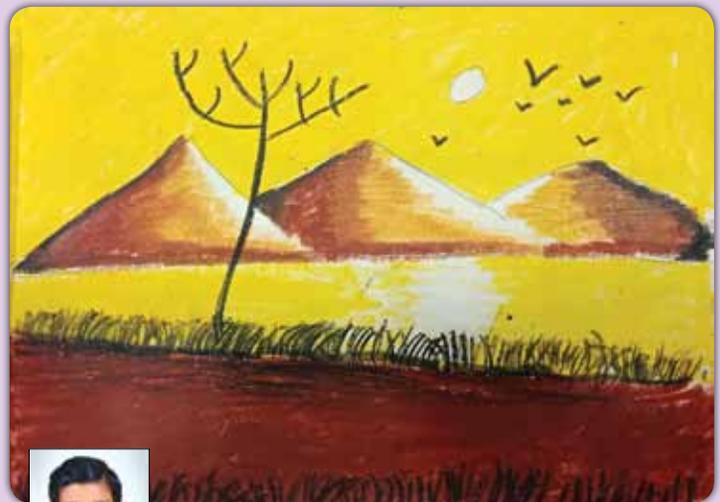
The team of **Meghna Satish, Nisha A, Gayathri K Abhliash** and **Darshanaa Hari**, all of Class X, secured the Third prize for exhibition



**Meghana Satish**



**Bhagyath Sobhan M**  
Std IIA, CRS,  
S/o Mr. Sobhan M.A. (Mfg.)



**Crayon drawing - Suraj** -Std III, CR School, S/o Mr. Satish Babu M., Senior Manager (P & U)

## प्रकृति का खेल, मानव की सीख

अरे, जीवन में कुछ कर दिखाओ, आगे बढ़ो, धन नहीं है तो शुनक समान है। समाज में नाम, इज्जत कमाने के लिए धन की ज़रूरत है....। राम कोने में बैठे सोच रहा था। गोपाल की पत्नी और बच्चे उस कोने में बैठ रो रहे थे। गोपाल लापता है।

राम और गोपाल बचपन के दोस्त थे, दोनों को जीवन में बहुत प्रतीक्षाएं, आशाएं थी। राम ने हर कोशिश की थी, मंज़िल तक पहुँचने के लिए, और पहुँचा भी। लेकिन गोपाल वहीं वहीं रह गया। न संपत्ति, न नाम।

बच्चों का रोना सुनकर राम सोच से उठे। हाथ पैर ढल गया था। कुछ करने में अशक्त। सब खो चुका। किसने सोचा था, यह हालत हो जाएगी।

रात को नीचे से रोना सुना दिया। माँ बाप ऊपर चढ़ रहे थे। राम ने देखा घर में पानी चढ़ आया है। सोचा ही नहीं था कि इस इलाके में पानी भी आएगा। टेलीविशन पर देख रहे थे कि कहीं भूस्खलन हुआ है, पूरे राज्य में ज़ोरदार बारिश जारी है, सभी बाँधों में पानी भर गया है, सरकार बाँधें खुलनेवाली है। उम्मीद थी कि पानी अपने रास्ते से बह सागर पहुँचेगा, और हमारे

इलाके के आसपास आएगा ही नहीं।

अरे, प्रकृति का खेल! जब मानव ने उसकी अपनी जगह खींच ली, वह देख रही थी, ये किस हद तक जा रहे हैं। प्रकृति क्या कर सकती है, उसका संतुलन ही खो उठा।

वह और भार का वहन करने में अशक्त थी। उसके हाथ-पैर बांध दिए थे।

बाँध पहले ही सोच समझकर आहिस्ता आहिस्ता एक एक करके, बारी बारी में खोल दिया होता तो शायद आज इतना विपदा आ नहीं पड़ती। लेकिन मानव वहाँ भी लालची था। जो रास्ते नदी के थे, उसपर हक कर दिया था, अपने काबिल में करके वहाँ खेती आरंभ की थी, मकान बनाए थे....! बाँध खोलकर इनकी तबाही करना उनको मंज़ूर नहीं था। लेकिन जब तक अक्ल खुल गई तो प्रकृति अपने वश में न रही। घनघोर बारिश ने बाँध खुलवाया। नदियों को अपना रास्ता ही नहीं मालूम पड़ा, जो भी रास्ता मिला, उस से बह निकली, जल प्रवाहित होने लगा।

ओ, क्या हाल है, यहाँ के घरवाले सब डरे हुए थे। बहुत सारे जन कैम्प में पहुँच गए थे। यहाँ अमीर गरीब का अंतर नहीं है। सभी भूखे हैं, भीगे हुए हैं, लेकिन बदलने

के लिए दूसरे कपडे तक नहीं। कैम्प में लोग आकर खाना, कपड़ा, दवा आदि बाँट रहे थे। उनके आगे राम और उनके घरवालों ने भी हाथ फैलाया।

हे राम, यह क्या हाल बना दिया तू ने! अपने पसीने से बनाया महल, कार, सब प्रलय में डूब गया। आज मैं, मेरा परिवार, मेरे घर के नौकर-चाकर, सभी एक समान हो गए हैं। हम सब एक ही कैम्प में खाना खाते हैं, सोते हैं।

‘अरे रो मत, गोपाल आ जाएगा।’ कोई गोपाल की पत्नी को दिलासा दे रहा है। उसके बच्चों को राम की पत्नी ने खाना खिलाया। अरी, दूर देख, वह रहा गोपाल, नौका लेकर आ रहा है, हाँ, गोपाल उनकी रक्षा में लगा है जो और भी न फँसे पड़े हैं। देखा उस नौके में गर्भवती महिला भी है। गोपाल पानी में लेटा पड़ा, ताकि वह महिला नौके से नीचे उतर सके।

हफ्ते बीते, केरल वापस अपनी पूर्व स्थिति में आ रहा है। टीवी में, फेसबुक में, वाट्सप में, सब मीडिया में गोपाल की प्रशंसा की जा रही है। उसको पुरस्कार दिया जा रहा है। सब गोपाल का गुण गान कर रहे हैं।

राम गोपाल के पास गया और कहा, ‘दोस्त हम दोनों का एक ही सपना था कि एक दिन हम इस दुनिया में एक नाम कमाएंगे, विख्यात बनेंगे। मैं ने बहुत कमाया, अमीर बना, अपना एक नाम बनाया, इस पर मुझे गर्व भी था, मुझे लगा था कि मैं ने सब कुछ हासिल किया है, नाम पाया है, लेकिन सब पानी में बह गया। लेकिन तू, जहाँ तू गिरा, उधर से तू ऊपर उठा, लोगों को तबाही से बचाया, अपने बारे में सोचे बगैर तू ने लोगों की मदद की, अपने घरवालों को सुरक्षित देखकर, तू ने दूसरों की भी रक्षा की। तू ने निःस्वार्थ होकर बहुत कुछ किया, सारी दुनिया के दिल में अपने लिए जगह बनाया। धन्य हो! तू ने सारी दुनिया को इनसानियत की सीख दी! यही सफल जीवन है।’



दुर्गा प्रिया जी/  
पी & सीएस

## प्यार

मिलता है प्यार, जल प्रलय जैसे आपदा में  
अपनी कंधों को सीढी बना देते युवाओं में !  
स्वजीवन फेंकते हुए भी दूसरों को  
ज़िंदगी देने वाले मछुवारों में ।

मिलता है प्यार उस नन्ही प्यारी में  
जो तोडती है अपनी 'पॉकट मणी' की बचत से !  
मिलता है प्यार उन सबके दिलों में  
जो देते हैं प्यार से अपने घर से सामान !

केरल में देखा दुनिया ने 'जल प्रलय'  
असल में बदल गया वह 'प्यार प्रलय' !  
हम सबों में दिल भरा है प्यार से हमेशा  
इस प्यार बाँटने में हिचकिए मत.....

दे दो प्यार भरा मुस्कुराहट हर पर  
बनेगी ज़िंदगी सुहानी हर पल !!



एन्टनी सोलमन /  
एचआर-संपदा

प्यार ही जीवन... प्यार ही ज़िंदगी,  
प्यार बिना जीवन अधूरी कहानी ...

## प्रशासनिक शब्दावली

Publication - प्रकाशन

Pulley- धिरनी

Punitive action - दंडात्मक कार्यवाही

Purchase committee - क्रय समिति

Purchase order- क्रयादेश

Purge - रेचन

Put off - टालना, स्थगित करना

Put up - प्रस्तुत करना

Qualification - शैक्षणिक योग्यताएं

Qualified candidate -

अर्हता प्राप्त उम्मीदवार

Qualified support- सशर्त समर्थन

Qualifying test - अर्हक परीक्षा

Quality - गुणता

Quality Product- बढ़िया उत्पाद

Quantity - मात्रा

Quasi-permanent - अर्धस्थायी

Quenching oil - शमन तेल

Query - प्रश्न

Queue - कतार

Questionable - शंकास्पद

Questionnaire - प्रश्नावली

Quota -नियतांश

Quotation - दर

Quoted as above - ऊपरी लिखित

Quoted below - नीचे उद्धृत

Racial discrimination - प्रजाति भेद

Radiation - विकिरण

Radical - मौलिक, बुनियादी

Radius - अर्धव्यास, परिधि

Rain water gutter - बरसाती नाली

Raised cheque - वर्धित राशि चैक

Raising of loans - ऋण लेना

Range - सीमा

Rank - पद, श्रेणी

Rare - दुर्लभ, विरल

Ratable value - करयोग्य मूल्य

Rate - दर, भाव

Rate analysis - दर विश्लेषण

Rate of exchange - विनिमय दर

Rated capacity - निर्धारित क्षमता

Ratification - अनुसमर्थन

Rating - मूल्य निर्धारण

Ratio analysis - अनुपात विश्लेषण



Rationalization - वैज्ञानिक पुनर्गठन

Raw material cost -

कच्चे माल की कीमत

Raw product - कच्चा उत्पाद

Reaction - प्रतिक्रिया, अभिक्रिया

Reading - वाचन, पठन

Ready cash - तैयार अदायगी

Real Estate - ज़मीन जायदाद

Realization- वसूली, उगाही

Reasonable - उचित, युक्तियुक्त

Rebate - छूट, कटौती

Receipt - आय, प्राप्ति

Receiver - ग्राही

Recent- हाल ही का

# ശ്രീ ബാബു കെ. പി. വിരമിക്കുന്നു

Indian Air Force - Mechanical Wing-ൽ 15 വർഷത്തെ സർവ്വീസ്. അതിനുശേഷം 2 വർഷം KSFE യിലെ താല്ക്കാലിക നിയമനം. തുടർന്നാണ് ശ്രീ. ബാബു കെ. പി. 1995-ൽ CRL-ൽ ജോലിയിൽ പ്രവേശിക്കുന്നത്. Security Section-ൽ ഔദ്യോഗിക ജീവിതം ആരംഭിച്ച അദ്ദേഹം 23 വർഷത്തെ സേവനത്തിനു ശേഷം മെയിന്റനൻസ് ഡിപ്പാർട്ടുമെന്റിൽ നിന്നുമാണ് വിരമിക്കുന്നത്.

സാമൂഹ്യമായും സാമ്പത്തികമായും സുസ്ഥിരമായ ഒരു ഭദ്രത പ്രദാനം ചെയ്യുവാൻ കഴിഞ്ഞ കൊച്ചി റിഫൈനറിയുടെ സർവ്വീസ് ഏറെ ചാരിതാർത്ഥ്യത്തോടെ സ്മരിക്കാൻ ശ്രീ. ബാബു വിന് കഴിയുന്നു. അതുകൊണ്ട്തന്നെയാണ് റിട്ടയർമെന്റിനോടടുത്ത ഈ കാലയളവിലും ഏറെ ഊർജ്ജസ്വലനുമായി കർമ്മ മേഖലകളിൽ വ്യാപൃതനാവുന്ന ബാബുവിനെ നമുക്ക് കാണാൻ കഴിയുന്നത്. അതുപോലെ തന്നെ മക്കൾക്ക് ലഭിച്ച നല്ല ശിക്ഷണത്തിലൂടെ അവരെ ഒരു കരിയറിലേക്ക് പ്രവേശിക്കുവാൻ പ്രാപ്തമാക്കിയ കമ്പനി സ്കൂളിനെ ഏറെ കൃതജ്ഞതയോടെ ബാബു ഓർക്കുന്നു.

ബാബുവിന്റെ സഹധർമ്മിണി ലൈല ഇറിഗേഷൻ ഡിപ്പാർട്ടുമെന്റിൽ നിന്നും അസി. എക്സിക്യൂട്ടീവ് എൻജിനീയർ ആയി വിരമിച്ചു. ഇവർക്ക് രണ്ട് ആൺമക്കൾ, മൂത്തമകൻ അനീഷ് ബാബു SBIയിൽ ബ്രാഞ്ച് മാനേജർ ആയി സേവനം



അനുഷ്ഠിക്കുന്നു. ഭാര്യ അഞ്ജു Kruthyam Solution എന്ന സ്ഥാപനത്തിലെ ഉദ്യോഗസ്ഥയാണ്. രണ്ടാമത്തെ മകൻ അജീഷ് ബാബു Hyderabad-ൽ EFLU-ൽ ആവസാന വർഷ ബിരുദവിദ്യാർത്ഥിയാണ്.

ജന്മംകൊണ്ടും സ്ഥിരതാമസം കൊണ്ടും ഉദയംപേരൂർകാരനായ ശ്രീ. ബാബു തന്റെ ശിഷ്ടജീവിതം കൃഷിയുമായി ജീവിക്കുവാനാണ് ഏറെ ഇഷ്ടപ്പെടുന്നത്. അങ്ങനെ നന്മകളാൽ വിളയിച്ചെടുക്കുന്ന സമഗ്രമായ ജീവിതസമൃദ്ധിയുടെ തണലിൽ ഇനിയുള്ള കാലവും ആയിരിക്കാൻ ശ്രീ. ബാബുവിനും കുടുംബത്തിനും കഴിയട്ടെയെന്ന് ആശംസിച്ചുകൊള്ളുന്നു.

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ജോസഫ് സൈമൺ വി. എം/  
മെയിന്റനൻസ്



## നിള....



ഒട്ടിയ വയറും വരണ്ടുണങ്ങിയ നാവുകളുമായി മരണത്തെ കാത്തിരുന്നവർ അടങ്ങാത്ത ആർത്തിയോടെ ജീവോൽപത്തിയെ സ്നേഹിച്ചവർ അവളുടെ അടങ്ങാത്ത കണ്ണീർ തോരാരതെ മഴയായ് പെയ്തപ്പോൾ നിറച്ചുണ്ട ഹർഷവുമായി അവൾ ഒഴുകുകയാണ് അവൾ ഒഴുകട്ടെ പഴയകാലത്തിന്റെ മധുര സ്മരണയിലും വർത്തമാനത്തിന്റെ നിറവിലും

നിതിൻ ജോസ് എം/  
മാനുഫാക്ചറിംഗ്

കവീത

**ഒ**രു തുള്ളി പോലും നൽകുവാനാവാതെ മച്ചിയായ് നീങ്ങുന്ന മേഘങ്ങളെ പോകുവതെങ്ങാണ് നിങ്ങളീനേരത്ത് ആരെ തിരയുകയാണ് മുക

ഒരു കൊച്ചു കുട്ടിയെ കോരിത്തരിപ്പിച്ചൊരാ മഴമേഘം അല്ല നിങ്ങൾ  
മഴ കാത്തു നിന്നൊരാ കുട്ടിയെ മോഹം ഭംഗത്തിലാഴ്ത്തുന്ന മേഘങ്ങളെ  
ഒരു കൊച്ചു കാറ്റിന്റെ താളത്തിനൊത്തു നീ ആടിക്കളിക്കയോ സ്വപ്നമായി

പേടിപ്പെടുത്തുന്ന രൗദ്രഭാവങ്ങളും വെള്ളിവാൾ പോലെയോ മിന്നലുകളും പെരുമ്പറ മുഴക്കുന്ന ഇടി ശബ്ദവും പകൽ രാത്രിയാക്കുന്ന കരിനിറവും ഒന്നുമേയില്ലാതെ സ്വച്ഛമായ് നീങ്ങുന്ന തുവെള്ള നിറമോലും മേഘങ്ങളെ.

താൻനൊന്നു പെറ്റോരു ചോരക്കുരുണിനെ തള്ളിയകറ്റിയൊരമ്മ നിൽപ്പു കാറ്റിന്റെ കൈകളിൽ ആടിക്കളിച്ചു നീ പാടിക്കളിച്ചു നീ പോകയാണോ.

താരാട്ട് പാടിയും താലോലം ആട്ടിയും നിന്നിലെ നൊമ്പരം കണ്ടറിഞ്ഞും

## മേഘം



സനൽ കുമാർ /  
മാനുഫാക്ചറിംഗ്

വെള്ളി മേഘങ്ങളെ കുഞ്ഞിളം കാറ്റിതാ ആഴിതൻ ചാരത്ത് ചേർക്കുകയായി.

ലോകത്തിനമ്മയാം ആഴിതൻ മക്കളാം കാർമേഘം ഇന്നു നിൻ കൂടെ നിൽപ്പു ഒരു തളിർ മഴയായ് നിന്നിലെ രാസാഗ്നി ആ കടലമ്മയിനേറ്റിടുന്നു.

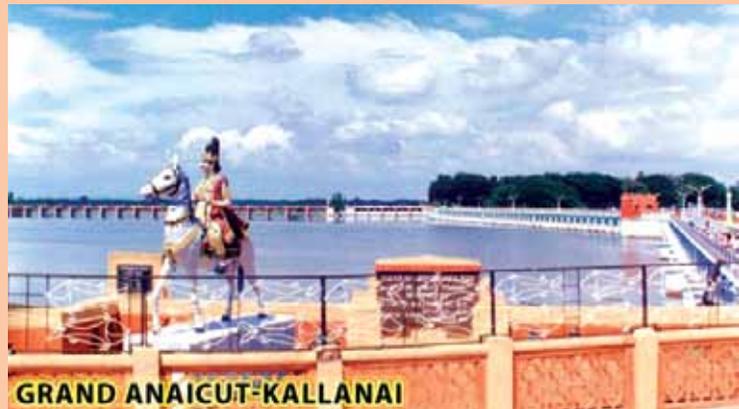
ഒരു നവമേഘമായ കാർമേഘമായ ഇന്നു ആഴിയிலൂടെ പുനർജ്ജനിക്കു ഒരു പുതു ജീവനായ് ആഹ്ളാദചിത്തയായ് ഈ പ്രപഞ്ചത്തിൽ അലിഞ്ഞു ചേർന്നു ആ വെള്ളി മേഘം അലിഞ്ഞു ചേർന്നു.



## കல்லങ്ങൈ

ഉലകിൻ முதன் முதலாக கட்டப்பட்ட அணைகளில் இன்றும் 2000 ஆண்டுகள்கடந்தும் கம்பீரம் குறையாத கட்டுமானத்துடன் நிலைத்து நிற்பது கல்லങ്ങை ஒன்றுதான். இது கரிகால் சோழனால் 2 ம் நூற்றாண்டில் கட்டப்பட்டதாகும்.

தஞ்சை, திருவாரூர், நாகை மாவட்டங்களின் உயிர் நாடியாகவும் விளங்குகிறது. டெல்டா மாவட்டங்களின் பாசனத்திற்காக தலை பகுதியாக விளங்குகிறது. கல்லணையிலிருந்து காவிரி, வெண்ணாறு, கல்லணை கால்வாய், கொள்ளிடம் என நான்கு ஆறுகளாக பிரிந்து சென்று டெல்டா மாவட்டங்களை வளப்படுத்துகின்றன. இது 1080 அடி நீளமும், 66 அடி அகலமும், 18 அடி உயரமும் கொண்டதாகும். இன்றைய உலகிற் சிறந்த பொறியியல் வல்லுனர்களும் பார்த்து வியந்த வண்ணம் உள்ளனர். மொத்தம் 111 மதகுகள் அமைக்கப்பட்டுள்ளன. தேவைக்கேற்ப இவை திறக்கப்பட்டு வருகின்றன. எக்காலத்திலும், எந்த சூழ்நிலையிலும் நிலைத்து நிற்க கூடிய ஒரு பிரம்மாண்டமான உறுதியான ஒரு அணை என்றால்



அது கல்லணை மாத்திரமே யாகும். 2000 ஆண்டு கடந்தும் அதே கம்பீரத்துடனும் உள்ளது. மேலும் தமிழனின் மதி நுட்பம் மற்றும் பொறியியல்-ஆற்றலுக்கான பறை சாற்றும்சான்றுஎன்றே சொல்லலாம்.

2000 ஆண்டுகளுக்கு முன்பு எந்த தொழில் நுட்ப வசதியும் இல்லாத காலத்தில் கல்லணை கட்டப்பட்டதென்றால் சோழ அரசர்களின் திறமையை என்னவென்று சொல்வது.



Yuvaraj S/  
HR

*Ayudha Pooja at Kochi Refinery where employees prayed for another successful year of operations and goodwill.*





Let's give our  
children the roots  
to grow and  
wings to fly!



*HAPPY CHILDREN'S DAY!*



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