



JWala DHwani



ENERGISING KERALA
ENERGISING NEW INDIA

ജ്വാലധനി | FEBRUARY 2019
Energising BPCL Kochi Refinery



*Chairman & Managing Director
welcomes*

*Hon'ble Prime Minister
in the presence of
Hon'ble Governor of Kerala and
Petroleum Secretary*



*Director (Refineries)
welcomes
Hon'ble Prime Minister
and Hon'ble Chief Minister*





**Inaugural Address by
Shri Narendra Modi
Prime Minister of India**

I am Happy to be here at Kochi the Queen of the Arabian Sea. The blue sea, the backwaters, the Great Periyar River the greenery all around, and its dynamic people make Kochi indeed a Queen among the cities.

It was from here, that the great Indian Sage Adi Shankar embarked on his epic journeys across India to protect the Indian civilization and unify the country.

Today is a historic day when the largest industrial unit of Kerala is entering its next phase of development. It is indeed a proud moment not just for God's Own Country but also for the entire Nation. Bharat Petroleum's Kochi Refinery has played a critical role in popularizing the clean fuel, LPG among masses in Kerala and neighbouring States for more than 50 years.

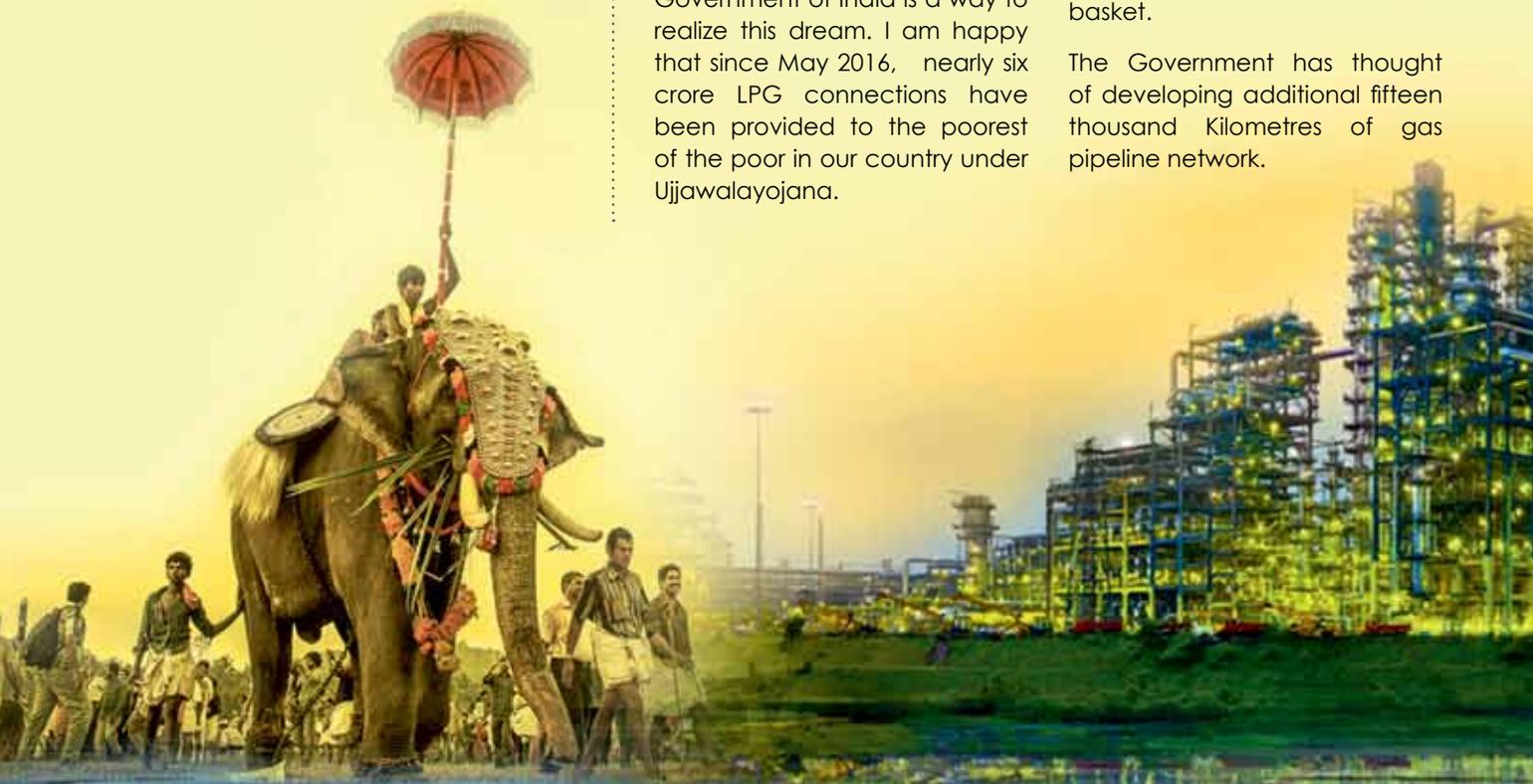
I recall, my childhood and youth, when I had seen many mothers struggling with the fire-wood stove in the kitchen. Ever since, I had always thought of improving their situation and providing healthy kitchens to the mothers and sisters of India. The Ujjwala scheme of the Government of India is a way to realize this dream. I am happy that since May 2016, nearly six crore LPG connections have been provided to the poorest of the poor in our country under Ujjwalayojana.

Friends, more than twenty three crore LPG consumers have joined the Pahal Scheme. Pahal has helped in identifying ghost accounts, multiple accounts and inactive accounts. Pahal has entered into the Guinness book of World records, as the largest Direct Benefit Transfer scheme in the world. Over one crore customers have given up LPG subsidy under 'Give it up' initiative. By doubling the LPG production with the help of the recent expansion, Kochi Refinery is making a great contribution towards Ujjwala.

To over-come environment pollution, the Government of India is promoting the use of environment friendly transport fuel that is CNG by expanding the coverage of City Gas Distribution network in the country.

After the successful completion of tenth CGD Bidding Round more than four hundred districts of the country will be connected for providing piped gas supply. The National Gas Grid or Pradhan MantriUrja Ganga has also been created to have a gas based economy and enhance the share of gas in the energy basket.

The Government has thought of developing additional fifteen thousand Kilometres of gas pipeline network.



To cut down on import of Crude oil, government has taken decisive steps towards reducing imports by ten percent and saving precious foreign exchange. To this end, the 2nd Generation ethanol through lignocellulose Route has been adopted by Oil PSUs for establishing twelve 2G ethanol plants in 11 States. Six MoUs have already been signed in this direction. The Indian refinery industry has done well in establishing itself as a major player globally.

India, which is second largest oil refiner in Asia, is emerging as a refinery hub with refining more than its demand. The country's refinery capacity is currently more than two forty seven MTPA. I take this opportunity to congratulate all for the timely completion of IREP.

Last but not the least **I recognize the work of all those labourers who worked day and night during construction. I am told that at the peak of the project, over twenty thousand labourers were working at the site.**

In many ways, they are the 'Real Heroes' of the Project. The Integrated Refinery Expansion Project was also a strategic move of Bharat Petroleum to diversify into non-fuel sector.

My friends, petro-chemicals are a grade of chemicals which we don't speak much about, but they exist invisibly and touch many aspects of our daily life. This includes building materials, plastics and paints, foot-wear, clothing and other fabrics or auto-motive parts, cosmetics and medicines. However, most of these chemicals are imported from other countries. It is our endeavour to see that these petro-chemicals are manufactured in India itself.

I am happy that using the capability of Kochi Refinery to produce propylene after the execution of IREP, BPCL has gone ahead with putting up three world scale plants to manufacture acrylic acid acrylates and oxo alcohol under Make In India.

These niche petro-chemicals will find use in

paints, inks, coating, detergent, and in many other articles. Now, BPCL is starting the construction of a Petro-chemical Complex where it would produce polyols that find end use in foams, fibres, foot-wear, cosmetics, and medicines. I am sure by all these, many ancillary industries would come to Kochi. I hope the Petro-chemical Park planned by State Government would become operational soon and leverage the business opportunities provided by the Petro-chemical venture of BPCL.

I am happy to note that BPCL along with other PSUs has set up a Skill Development Institute for skilling and developing employable youth.

I am delighted to lay the foundation stone of the second campus of the institute at Ettumanoor near the holy Mahadeva Temple.

I am also glad to note that Indian Oil Corporation has put out the Mounded Storage Facility at its Cochin Bottling Plant, around 12 kilo-meters from here at a cost of Rupees fifty crores. This will enhance LPG storage capacity and also reduce road movement of LPG tankers.

It is heartening to note that last August, when Kerala was passing through the worst floods in a hundred years, BPCL Kochi Refinery was kept running against all odds. I understand that many employees stayed in the refinery to ensure continuous production of petrol, diesel and LPG. This helped the rescue vehicles and helicopters to continue relief and rescue operation smoothly.

I urge BPCL Kochi Refinery to keep up this spirit of hard work, social commitment and innovation as it moves towards its next phase of development. We are proud of Kochi Refinery's contributions towards Nation Building.

But now we have greater expectations. I wish that Kochi Refinery leads a Petro-chemical Revolution in Southern India and support the growing needs of a New India!

Jai Hind!





Address by Shri Pinarayi Vijayan Chief Minister of Kerala

സഹോദരി, സഹോദരൻമാരെ,

കൊച്ചിയിൽ റിഫൈനറിയുടെ വികസനവുമായി ബന്ധപ്പെട്ട രണ്ട് പദ്ധതികൾ നാടിന് സമർപ്പിക്കുന്നതിനു വേണ്ടിയാണ് ബഹുമാന്യനായ പ്രധാനമന്ത്രി നരേന്ദ്ര മോദിജി ഇവിടെ എത്തിയിരിക്കുന്നത്. അദ്ദേഹത്തോടൊപ്പം ധർമ്മേന്ദ്ര പ്രധാൻജിയും ഉണ്ട് എന്നത് സന്തോഷം നൽകുന്ന കാര്യമാണ്. ഇതോടൊപ്പം തന്നെ, മറ്റ് രണ്ട് പദ്ധതികൾക്കുടി ഇന്നിവിടെ തുടക്കം കുറിക്കുകയാണ്.

കേരളത്തെ സംബന്ധിച്ചിടത്തോളം കൊച്ചി റിഫൈനറിയുടെ വികസനവുമായി ബന്ധപ്പെട്ട പ്രവർത്തനങ്ങൾ സംസ്ഥാനത്തിന്റെ ആകെ വികസനത്തിന് മുതൽകൂട്ടുന്നവയാണ്. അതുകൊണ്ട് തന്നെ, ഈ ചടങ്ങിൽ പങ്കെടുക്കാൻ കഴിഞ്ഞതിലുള്ള സന്തോഷം ആദ്യമേ തന്നെ രേഖപ്പെടുത്തട്ടെ.

കൊച്ചി റിഫൈനറിക്ക് എന്നും അതിന്റെ വികസനത്തിനും, വളർച്ചയ്ക്കും ഉതകുന്ന നിലപാടുകളാണ് സംസ്ഥാനം സ്വീകരിച്ചിട്ടുള്ളതെന്ന് വ്യക്തമാണ്. പുതിയ സംരംഭങ്ങൾക്ക് വേണ്ട ഭൂമി ലഭ്യമാക്കിയതും, കാലാകാലങ്ങളായി അത്തരത്തിൽ ആവശ്യമായ എന്തിനും ഭൂമി ലഭ്യമാക്കിക്കൊണ്ടിരിക്കുന്നതും സംസ്ഥാന സർക്കാർ തന്നെയാണ്.

ഇന്ന് ഉദ്ഘാടനം ചെയ്യപ്പെടുന്ന Integrated Refinery Expansion പദ്ധതിക്കു വേണ്ടി ചിലവായത് 16,504 കോടി രൂപയാണ്. കേരളത്തിന്റെ ചരിത്രത്തിൽ തന്നെ ഏറ്റവും വലിയ നിക്ഷേപങ്ങളിൽ ഒന്നാണിത്.

അതുകൊണ്ട് തന്നെ, ഈ പദ്ധതി യാഥർത്ഥ്യമാവാൻ ആവശ്യമായ നികുതി ഇളവുകൾ നൽകുന്ന സമീപനമാണ് സംസ്ഥാന സർക്കാർ കൈകൊണ്ടത്.

കേരളത്തിലെ കേന്ദ്രപൊതുമേഖലാ സ്ഥാപനങ്ങളെല്ലാം ഇത്തരത്തിൽ മെച്ചപ്പെടുത്തുന്ന സമീപനമാണ് സംസ്ഥാന സർക്കാർ സ്വീകരിച്ചു വരുന്നത്. Instrumentation Limited,



Earth Movers Limited, Newsprint Limited

എന്നിവയുടെയൊക്കെ കാര്യത്തിൽ സംസ്ഥാന സർക്കാർ എടുത്തിട്ടുള്ള നിലപാട് പരിശോധിച്ചാൽ അത് വ്യക്തമാവുന്നതാണ്. ഏറ്റവും അവസാനം തിരുവനന്തപുരം വിമാനത്താവളത്തിന്റെ വികസനത്തിന് വരെ സംസ്ഥാനം നേരിട്ട് മുൻകൈ എടുത്തുകൊണ്ടിരിക്കുകയാണ്. അത്തരം നിലപാടുകൾ എടുക്കുന്നത് പൊതുമേഖലയെ ശക്തിപ്പെടുത്തണമെന്ന നയപരമായ സമീപനം ഉള്ളതുകൊണ്ടു തന്നെയാണ്.

അതിന്റെ മികച്ച ഉദാഹരണമാണ് ഫാക്ടറിന്റെ നവീകരണത്തിന് ഒതുങ്ങുന്ന വിധത്തിൽ സംസ്ഥാനത്തിന്റെ മുൻകൈയിൽ ഒരു പെട്രോ കെമിക്കൽ പാർക്ക് യാഥാർത്ഥ്യമാക്കാൻ നടത്തുന്ന ശ്രമം. 1427 കോടി രൂപയാണ് കേരള സർക്കാർ ഇതിനുവേണ്ടി ചിലവഴിക്കുന്നത്. ഇത് യാഥാർത്ഥ്യമാവാൻ ഫാക്ടറിന്റെ ഭൂമി കൈമാറ്റം ചെയ്യേണ്ടതുണ്ട്. ഒരു ലക്ഷം കോടി രൂപയുടെ നിക്ഷേപം ഈ പെട്രോ കെമിക്കൽ പാർക്കിലേക്ക് വരുമെന്നാണ് കണക്കാക്കപ്പെടുന്നത്. ഇന്നിവിടെ തറക്കല്ലിടുന്ന പെട്രോ കെമിക്കൽ കോപ്ലക്സിൽ നിന്ന് ഉണ്ടാകുന്ന ഉൽപ്പന്നങ്ങളുടെ വിപണനത്തിന് വലിയ മുതൽക്കൂട്ടാവുന്ന ഒന്നായിരിക്കും നിർമ്മിച്ച പെട്രോ കെമിക്കൽ പാർക്ക് അതുകൊണ്ട് തന്നെ രാജ്യത്തിന്റെ സമ്പദ് വ്യവസ്ഥയിൽ വലിയ ചലനങ്ങൾ ഉണ്ടാക്കാൻ ഉതകുന്ന പദ്ധതിയാണിത്.

ഇന്ന് തറക്കല്ലിടുന്ന മറ്റൊരു സംരംഭം ഏറ്റുമാനൂരിലെ Skill Development Institute ആണ് കേരള സർക്കാർ ബി.പി.സി.എല്ലും, മറ്റ് എണ്ണ കമ്പനികളുമായി ചേർന്ന് ഒരു നൈപുണ്യ വികസന കേന്ദ്രത്തിന് അങ്കമാലിയിലെ Inkel ബിസിനസ്സ് പാർക്കിൽ ആരംഭം കുറിച്ചിരിക്കുന്നു. അതിന്റെ തുടർച്ചയായി ഏറ്റുമാനൂരിൽ ഇത്തരത്തിലൊരു SDI യാഥാർത്ഥ്യമാകുന്നു എന്നതിൽ സന്തോഷമുണ്ട്.

ഓയിൽ & ഗ്യാസ് വ്യവസായത്തിന്റെ വിവിധ മേഖലകളിൽ ചെറുപ്പക്കാർക്ക് നൈപുണ്യ വികസനം നൽകാനും അങ്ങനെ അവരെ ആഗോള രംഗത്തെ തന്നെ ഈ മേഖലയിലെ മെച്ചപ്പെട്ട തൊഴിലുകൾക്കായി സജ്ജരാക്കുവാനും ഈ സ്ഥാപനത്തിന് കഴിയട്ടെയെന്ന് ആശംസിക്കുകയാണ്.

ഇന്ന് രാഷ്ട്രത്തിന് സമർപ്പിക്കപ്പെടുന്നതും തറക്കല്ലിടുന്നതുമായ പദ്ധതികൾ നമ്മുടെ രാജ്യത്തിന് ആകെ അഭിമാനകരമായ വിധത്തിൽ വളരട്ടെയെന്നും രാഷ്ട്ര പുരോഗതിക്ക് വഴിവെക്കട്ടെയെന്നും ആശംസിച്ചുകൊണ്ട് അവസാനിപ്പിക്കുന്നു.

നിങ്ങൾക്കെന്റെ സ്നേഹാഭിവാദ്യങ്ങൾ!





**Address by
Shri Dharmendra Pradhan
Union Minister for Petroleum
& Natural Gas and Minister
of Skill Development and
Entrepreneurship**

Today is a historic occasion for we have Hon'ble Prime Minister here to dedicate to the nation the *Integrated Refinery Expansion Project of Kochi Refinery & Mounded Storage Vessels of IOCL LPG Bottling Plant in Kochi*. Today Hon'ble Prime Minister will also lay the foundation stone of the *Petro Chemical Complex in Kochi Refinery and the Skill Development Institute at Ettumanoor*. I welcome and express gratitude to Hon'ble Prime Minister Shri. Narendra Modiji for gracing the occasion and I also welcome the other dignitaries on the dais.

Beginning with the modest capacity of only 2.5 Million Metric Ton per annum, the **Kochi Refinery after expansion with the production capacity of 15.5 million metric ton per annum has become the largest public sector Refinery in India**. It has to meet the growing energy need especially of South India and also make environment friendly auto fuels. The expansion project was completed in time during which indirect employment was provided to more than 20,000 people. Direct and indirect employment for about 500 people has been created after commissioning of the units.

Today hon'ble Prime Minister will also lay the foundation stone of the Petro Chemical Complex. BPCL's strategical entry into the Petro Chemical sector to reduce dependency of country on import of petro chemicals which is used to produce daily-



use articles like paints, print inks, automotive parts, diapers, cosmetics , pharmaceuticals etc. The total investment for those petro chemical project is approximately Rs.16,400 Crore. I understand this will reduce the import to an extent of Rs.13,000 Crore per year which is quiet substantial. The stock available from BPCL for the production of other value added products will lead to establishment of ancillary units which will give boost to local economy and generate substantial employment in the state of Kerala.

Hon'ble Prime Minister is also dedicating to nation the Indian Oil Corporation mounded storage facility at its bottling plant. The storage facility includes 3 coolers of 1200 million metric ton each set up at a total cost of around Rs. 52.0 crore.

BPCL along with other Oil companies has promoted the Skill Development Institute at Kochi to provide vocational training to youth and enhance the employability and entrepreneurship of Oil & Gas sector and other industry. A vast campus has been setup at INKEL business park Angamaly with all modern facility in 36,500 Sq.ft area. The second campus is to be setup at the 8 acre of lease land at government ITI campus at Ettumanoor, Kottayam district. The state of art world class institute will train 1000 students every year in 20 different trades in a built up area 4 Lakh Sq.ft which is expected to

come up by the year 2020. Hon'ble PM will lay the foundation stone of this institute.

Friends, Kochi has now emerged as the important hub of Petroleum Infrastructure. We have LNG terminal in Kochi which can cater to the need of natural gas for the state of Kerala and Karnataka. Connecting pipelines are being laid. It has now a world class Refinery Petroleum Sector Skill Development Institute and LNG academy. With Petro Chemical Complex coming up in Kochi, it will give a quantum jump to the hydro carbon portfolio of the city. In the state of Kerala 8 districts are being connected to city gas infrastructure and 3 more districts will be connected very soon.

Friends, Hon'ble Prime Minister has always given importance to the development of the energy sector and the alleviation of poverty. He has defined **4 pillars of energy foundations for India, Energy Access, Energy Efficiency, Energy Sustainability and Energy Security.** Under his guidance we are promoting alternative fuels like Ethanol, Compressed biogas, coal to gas and many more similar initiatives. The last four and half years we had made an attempt to make infrastructure to develop India as a Refining & Petro Chemical hub of the world. I am happy that within this last month Kochi will remain a bright spot.





**Message from
Chairman & Managing Director**

Dear Friends,

Thorough preparation precedes success! And our Kochi Refinery Team has proved this yet again. January 27, 2019 will be marked as a red letter day in the history of BPCL, when the Honible Prime Minister of India visited BPCL's Kochi Refinery to dedicate the Integrated Refinery Expansion Project (IREP) to the Nation, lay the foundation stone of BPCL Petrochemical Complex at Kochi and remotely lay the foundation stone of the Skill Development Institute at Ettumannur.

As we geared up for this special occasion, I observed, with admiration, the untiring efforts invested by the entire Kochi team for days together. The meticulous approach towards organizing the event was evident from the well planned deliverables, team's preparedness to execute efficiently, clearly defined and allocated responsibilities, and strong inter-personal relations with key stakeholders. The groundwork, arrangements, and hospitality of the Kochi team have been truly exemplary! I take this opportunity for congratulating Team



Kochi for their dedication, hard-work and relentless preparation!! It was indeed a magnificent event that was widely appreciated by many. I would also like to especially congratulate Mr Prasad K Panicker, Executive Director (I/C), Kochi Refinery, on his charismatic, collaborative and empowering leadership style. Team Kochi has made BPCL proud! Kudos to the team! I do hope that this trend will continue always.

I would also like to appreciate the contributions of the Brand & PR team and the Co-ordination team. They have generously exhibited their oneness with the KR Team in preparing for this mega event.

In the words of our Hon'ble Prime Minister: "I urge BPCL Kochi Refinery to keep up this spirit of hard work social commitment and innovation as it moves towards its next phase of development. We are proud of Kochi Refinery's contributions towards Nation Building. But now we have greater expectations. I wish that Kochi Refinery leads a Petro-chemical Revolution in Southern India and supports the growing needs of a New India!" While these words make us swell with pride, we have to internalize the learnings from this event and put them into practice. The expectations from BPCL have increased manifolds, and in order to live up to these, we have to upgrade our learnings, intense our skill, and enhance our knowledge.

I would like to conclude by quoting Catherine Pulsifer: *"With your entire focus on your goal, you will reach levels of achievement that you never thought possible."*



D. Rajkumar





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Energising Kerala, Energising New India

"Happiness is when what you think, what you say and what you do are in harmony"

These words of Mahatma Gandhi exactly explains the happiness we find in approaching each mission at Kochi Refinery. January 27, 2019 being no different - the culmination day of a great project and the start of a new one. A day that will go down in golden letters in the history of Kochi Refinery as together we have built the largest PSU Refinery in India.

The crescendo of our happiness was when the Hon'ble Prime Minister dedicated the Integrated Refinery Expansion Complex in the presence of everyone near and dear to Kochi Refinery, heads of State and Govt Machinery, business associates and well-wishers. We extend our deep gratitude to the Hon'ble Prime Minister Shri Narendra Modi for congratulating us and the labour staff whom he applauded as the real heroes. "I urge BPCL Kochi Refinery to keep up this spirit of hard work, social commitment and innovation as it moves towards its next phase of development. We are proud of Kochi Refinery's contributions towards Nation Building. But now we have greater expectations. I wish that Kochi Refinery leads a Petrochemical Revolution in Southern India and support the growing needs of a New India!" he said.

The encouragement and blessings the Hon'ble PM has showered for the future projects of BPCL, have set us on a brave new challenge. We are no doubt committed to deliver for our Nation's progress. Our strength and commitment has now been benchmarked by none other than the Prime Minister of India. Our role thus gains more relevance and significance, as we rise to deliver, rise to serve and rise to energise Kerala and energise New India.

This issue of JwalaDhwani is a toast to Kochi Refinery the largest PSU Refinery in India, where we believe that only we can be the change that we want to see in the world.

Warm regards
Editor



Hon'ble Prime Minister energises Kochi Refinery, the largest PSU Refinery in India

On the historic day of 27 January 2019, team BPCL at Kochi Refinery witnessed the dedication of Bharat Petroleum's Integrated Refinery Expansion Complex and Indian Oil Corporation's Mounded Storage Vessel at Cochin Bottling Plant at the hands of Prime Minister of India Mr. Narendra Modi. He did the honours in the most distinguished presence of the Governor of Kerala, Justice P Sathasivam, Chief Minister of Kerala, Mr. Pinarayi Vijayan, Union Minister for Petroleum and Natural Gas and Minister for Skill Development and Entrepreneurship, Mr. Dharmendra Pradhan, Union Minister for Tourism, Mr. Alphons Kannanthanam, Members of Parliament Prof K V Thomas and Prof Richard Hay and Member of Legislative Assembly, Mr. VP Sajeendran at a grand ceremony in Kochi.

The foundation stone of Bharat Petroleum's Petrochemical complex at KR and the Skill Development Institute at Ettumanoor were also laid on this historic day. The thousands present and the tens of thousands who watched the live broadcasts through television and online media have witnessed each moment that goes down in golden letters for BPCL Kochi Refinery.

Yes, it was a day where missions were accomplished and new missions launched. It goes down in history as the day the Prime Minister energized Kochi Refinery and where we once again promised our commitment to energising Kerala, energising New India!





First stop Kochi Refinery Main Control Room

On his arrival, the Prime Minister first visited the most modern, state of the art, Main Control Room (MCR) of BPCL Kochi Refinery where he was received by the Secretary of Ministry of Petroleum & Natural Gas, Mr. M MKutty, Chairman and Managing Director of BPCL, Mr. D Rajkumar and Executive Director I/c of BPCL Kochi Refinery, Mr. Prasad K Panicker. He was accompanied by the Governor, Chief Minister and the Petroleum Minister.

The MCR, with an area of 57400 sqft is designed as a blast proof building with concrete walls and four exits. The building has full-fledged HVAC system, fire alarm system and clean agent system. At the special gallery where the mini-model of Kochi Refinery has been stationed, the Prime Minister was

given a bird's eye view of the transformational project that has made Kochi Refinery the largest PSU Refinery in India. The miniature replica had all facilities available at Kochi Refinery including the first phase of petrochemical projects. Subsequently in his detailed presentation at the MCR, our C&MD explained the transformative contributions by BPCL and Kochi Refinery in the growth of the State of Kerala. The Prime Minister also interacted with the panel engineers at MCR and took a group picture with the team.

Charting a new history for KR

It was a privilege for Kochi Refinery to have the historic dedications and launches of new projects by none other than the Prime Minister of India.





At the main venue, BPCL Director (Refineries), Mr. R Ramachandran received the Prime Minister, Chief Minister and Petroleum Minister. The Prime Minister was given a royal welcome with traditional drums and rapturous applause of 5000 plus audience who were waiting for his arrival since 13:35 hours that afternoon.

On the dais Dr. MM Kutty welcomed him with the traditional Kerala Shawl and Mr. D Rajkumar, C&MD BPCL, presented a memento.

Dedications by the Prime Minister

The dedication of Bharat Petroleum Kochi Refinery's **Integrated Refinery Expansion Complex** marks the successful culmination of the Integrated Refinery Expansion Project conceptualized to transform Kochi Refinery into a world class refinery with the largest refining capacity among Public Sector refineries and to foray into the next stage of development of petro chemicals. This was made possible by the successful completion of BPCL's Integrated Refinery Expansion Project at Kochi Refinery.

BPCL Kochi Refinery started fuelling the nation with a capacity of 2.5 Million Metric Tonnes Per Annum (MMTPA) in 1966. The Refinery was dedicated to the Nation on 23 September 1966 and was the

eighth petroleum refinery in the country. Kochi Refinery has grown 6 times in last 5 decades.

Integrated Refinery Expansion Complex was implemented at a cost of Rs.16504 crores to meet the growing energy needs, especially of South India, and also to make auto fuels more environment friendly. IREP Projects took 125 million man hours, 17000 kms of pipeline and 7000 kms of cable were laid out, 41000 tonnes of equipment were erected and 220 very large equipments were brought to the site through road and waterways. So this will give you an idea of how mammoth the project is.

With the successful completion and commission of the project, Kochi Refinery has been transformed into a world class refinery with a refining capacity of 15.5 Million Metric tonnes per annum. This expansion has also helped Kochi Refinery to become the largest Public Sector Refinery in the country. This investment of Rs.16504 crores was the single largest in the state of Kerala which generated ample employment opportunities as well as all round economic growth and development of the region.

The Prime Minister also inaugurated the Indian Oil Corporation's mounded storage vessel at its



bottling plant at Udayamperoor. This LPG storage was set up at a total cost of around Rs.50 crores thereby raising the storage capacity to 4350 MT which will benefit lakhs of households in Ernakulam, Idukki, Thrissur, Kottayam, Pathanamtitta, Alleppey and Malapuram.

Foundation stone for far reaching projects

The Prime Minister laid the Foundation Stone for the **BPCL Petrochemical Complex at KR**. Production of Niche Petrochemicals has been envisaged to add value to the 500,000 Metric Tonnes Per Annum (MTPA) of Propylene from Integrated Refinery Expansion Complex and also reduce dependence of the country on imports. The Prime Minister then unveiled the foundation stone of the Petrochemical Complex in BPCL Kochi refinery.

In the first phase, we will have 250,000 Metric Tonnes Per Annum(MTPA) of Propylene and produce Butyl Acrylate, Ethyl Hexyl Acrylate, Acrylic Acid, Ethyl Hexanol and Butanol which are currently not produced in India. In phase -2, the project will utilize 250,000 MTPA of Propylene & 100,000 MTPA of Ethylene to produce Polyols, Propylene Glycol and Mono Ethylene Glycol. These products are produced in India but demand is much higher than production capacity available in India.

These products will find use in the industry segments of refrigeration, detergents, paint sealants, coatings, adhesives, PU foam, footwear etc. Products from these two projects are expected to result in foreign exchange savings of approximately Rs.13000 crores per annum for the country. It will also provide employment opportunity to approximately 12000 persons during the construction phase. Utilizing these feeds stocks available from BPCL for production of other value added products, GOK has proposed to set up a Petrochemical Park in 481 acres of land developed by KINFRA.

In a virtual ceremony, Prime Minister also laid the foundation stone for the **Skill Development Institute at Ettumanoor**. BPCL along with other oil companies has promoted a Skill Development Institute at Kochi to provide vocational training to youth and enhance their employability/entrepreneurship for the deserving youth both in Oil & Gas industry and other industries. The first campus was set up at Inkel Business Park Angamaly .The second campus will be set up at 8 acres of leased land at Govt ITI campus, Ettumanoor, in Kottayam District of Kerala. The state of art world class institute is planning to train 1000 students every year in 20 different trades in a built-up area of one lakh

BPCL Kochi Refinery

27th January, 2019



square feet and is expected to be operational by mid 2020. Turn to page 24 for full details of the projects blessed by the Prime Minister.

Special effects for the special venue

The grounds of erstwhile Govt Higher Secondary School, Kuzheekkad, now an extended portion of the Refinery, was transformed into an international arena with a fully air-conditioned dome and stage for the main event. Security alerts were to the top order with complete support from the District Administration, Special Protection Guard and the District Police Commissioner. The venue was prepared on Green protocol with a massive Pandal to seat approximately 5000 people. Keeping the visibility factor in mind, a 30 meter wide stage with a full digital wall made for easy viewing.

Wide digital TVs were placed intermittently for the convenience of audience further away from the stage and at other locations including the VIP lounge, MCR and SDI at Ettumanoor.

As the actions were going on at different locations simultaneously, live streaming was arranged to and fro the main stage for both venues, namely the MCR and SDI Ettumanoor, thus keeping the audience informed of the course of events in real time. While it was a totally digital experience, traditional décor and entertainment added the *Kerala aura* to the event at Kochi. The Pancharimelam (traditional drums and trumpets) by a 50 member group welcomed the distinguished guests and entertained the huge gathering at the main event. Likewise, the vadhyaamelam and





traditional muthukuda were ethnic delights en-route MCR inside Kochi Refinery.

The spectacular audience

Invitations were sent out to close to 20000 guests, well-wishers, business associates and stakeholders for the premium event. Finalization of invitations, finalization of the guest lists and managing protocol was a stupendous task to be meted out in less than 48 hours from the event. The teams worked in tandem to ensure our guests had a hassle free experience from entry to exit at the prestigious event with top class security. On D-day, the crowd that gathered to witness the historic moments were

delighted at the reception, the hospitality and above all the precision care taken for every detail to make each moment memorable.

Ensuring wide coverage

Doordarshan was the media partner for live coverage across channels and ANI looked after social media coverage for Petroleum Ministry. Over 30 teams came in from print and press media to cover the event. A special advertisement was also released in all Kerala dailies in honour of the dedication of the biggest PSU refinery in India and the initiation of other Oil and Gas initiatives under the Ministry of Petroleum & Natural Gas.



Leading from the front

The build up to the grand event on 27 January 2019 has been orchestrated meticulously with the senior leadership of BPCL leading from the front. An organising committee was formed with Director (Refineries), as the Patron and ED (Kochi Refinery) I/c, as Convenor. Every aspect of the high-profile, high protocol event was taken into detail and managed by exclusive committees under Mr. PS Ramachandran, ED(Projects), Mr. Jayesh Shah, ED(HR) and Mr. Murali Madhavan CGM (Ops). The organising team for the grand day had over 200 members both from KR and BPCL BUs in Kerala. Extensive support was also received from Delhi Coordination and Corporate Brand & PR.

Both the C&MD and Director (Refineries) arrived at Kochi Refinery on the BPCL Foundation Day, 24 January 2019 for reviewing the progress of the arrangements and soon after that Petroleum Minister arrived to instill more confidence in us on the D-Day.

The dedicated team of 200+ officials left no stone unturned to making the dream come true in just five days. And the event that was clocked by the minute, for the entire 50 minutes, was more than just magical!

In his post event review and through a corporate broadcast C&MD congratulated Kochi Refinery and the organizing team led by Director (Refineries) and ED(KR) i/c for the impeccable management of affairs and the happiness delivered. This appreciation has left Kochi Refinery beyond energized to rise up to the expectations that the Prime Minister has from BPCL Kochi Refinery.

As a totally energized unit of BPCL, we the people of Kochi Refinery, the largest PSU Refinery in India, pledge our commitment to energising Kerala, energising New India.



ENERGISING KERALA ENERGISING NEW INDIA

Dedication of Integrated Refinery Expansion Complex, BPCL Kochi Refinery
 Foundation Stone Laying of Petrochemical Complex, BPCL Kochi Refinery
 Dedication of Mounded Storage Vessel, IOCL LPG Bottling Plant, Kochi





BPCL Kochi Refinery
27th January, 2019



Memorable a Historic

27 Jan





Oil & Gas Projects blessed by Hon'ble PM in Kerala

1

Integrated Refinery Expansion Complex

The new Integrated Refinery Expansion Complex of Bharat Petroleum's Kochi Refinery dedicated to the Nation was implemented at a cost Rs 16504 crores. It was an effort to meet the growing energy needs, especially of South India, and also to make environment friendly auto-fuels.

With the successful completion and commissioning of the project, Kochi Refinery has been transformed into a world class refinery with a refining capacity of 15.5 Million Metric Tonnes Per Annum (MMTPA). IREP has also helped Kochi Refinery to become the largest Public Sector Refinery in the country.

Moreover, the high complexity gained through the project is helping KR to process 100% high sulphur crudes while producing Auto Fuels complying with full Bharat Stage-IV and subsequently Bharat Stage-VI quality norms. This project also facilitated bottoms up gradation to value added distillates and production of Petrochemical feedstock of Polymer grade Propylene & Ethylene.

2

Mounded Storage Vessels (MSV) at Indian Oil LPG Bottling Plant, Cochin

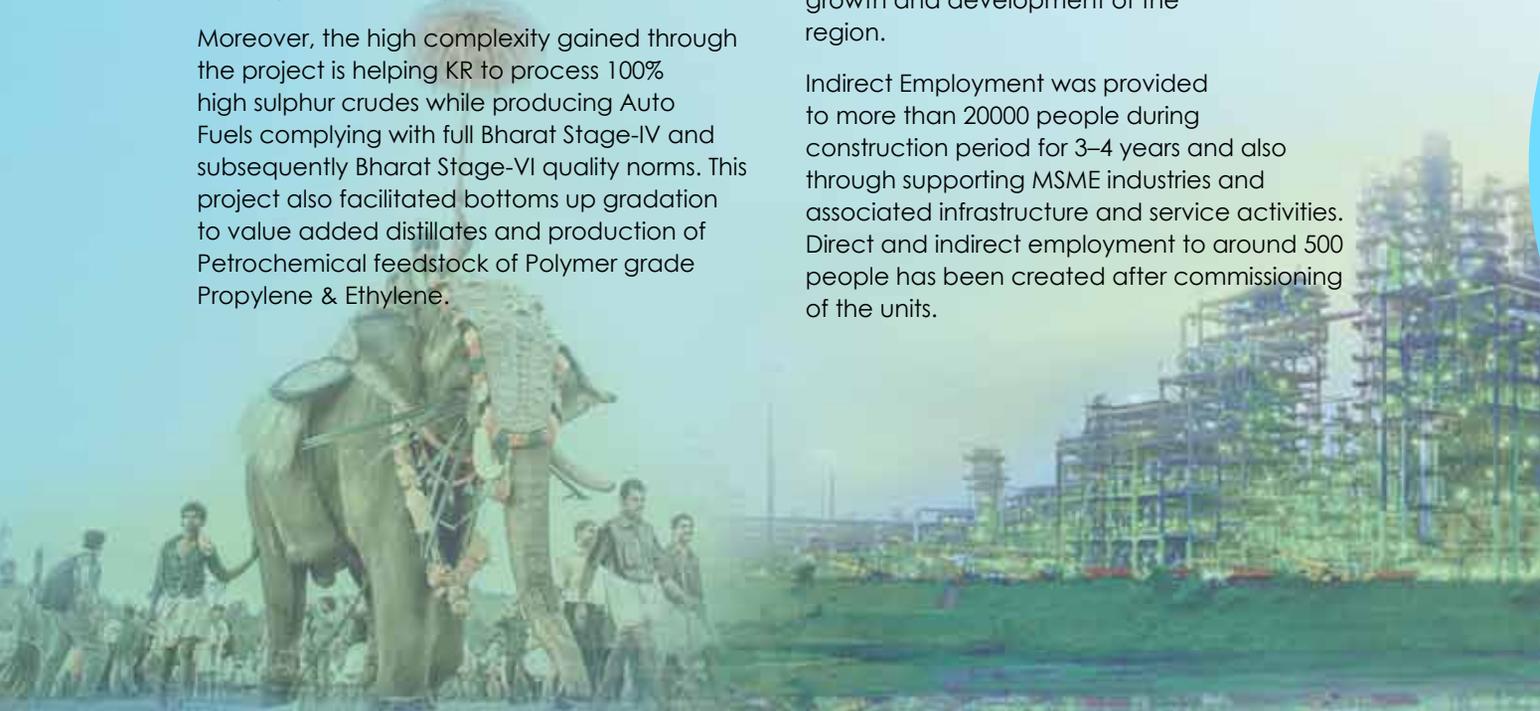
Hon'ble Prime Minister inaugurated the Indian Oil Corporation's Mounded Storage Vessel (MSV) at its' Bottling Plant. This LPG storage include three bullets of 1200 MT each and was set up at a total cost of around Rs. 50 crores.

The total storage capacity of Cochin LPG Bottling Plant stands increased to 4350 MT. The enhanced LPG Storage at plant is sufficient to meet LPG requirement of about 6 days bottling capacity of the plant. Increased storage capacity will benefits lakhs of households in Ernakulam, Idukki, Thrissur, Kottayam, Patnamthitta, Alleppey and Malapuram.

The facility is equipped with all latest safety features, fire fighting facilities and infrared based detection Gas monitoring system. MSV type of storage vessels are safest form of LPG storage and contribute in ensuring the highest level of plant safety and thereby adjacent areas. As the plant is now able to receive the LPG through pipeline from Kochi Refinery (in view of having adequate receipt and storage capacity), movement of LPG Tankers on roads has reduced significantly. This reduction in movement of bulk tankers on roads has minimized road accidents and other related damages / loss of property etc.

This investment of Rs 16504 Crores which was the single largest in the state of Kerala generated ample employment opportunities as well as all round economic growth and development of the region.

Indirect Employment was provided to more than 20000 people during construction period for 3-4 years and also through supporting MSME industries and associated infrastructure and service activities. Direct and indirect employment to around 500 people has been created after commissioning of the units.



3

BPCL Petrochemicals Complex at Kochi Refinery

After the implementation of IREP, Kochi Refinery has the capacity to produce 500,000 Metric Tonnes Per Annum (MTPA) of Propylene. Propylene is one of the main feed-stocks of petrochemicals. Using this capacity, BPCL is strategically entering the petrochemical sector to reduce dependence of the country on imports of petrochemicals which is used to produce a wide range of articles as paints, printing inks, automotive parts, diapers, cosmetics, pharmaceuticals, etc.

Hon'ble Prime Minister laid the foundation stone of a Petrochemical Complex which would produce one such petrochemical called Polyols. This Complex is expected to go on stream by end 2022. These products find use in the industry segments of automotive seats, mattresses, shoe soles, refrigeration, coatings & sealants, pharmaceutical, food additives, fibres etc.

Earlier, BPCL had ventured in to a project to set up facilities to produce Acrylic Acid, Acrylates and

Oxo-alcohol. These petrochemicals find us in the manufacture of Paints, water treatment, super absorbent polymer, detergent, adhesives, sealants, solvents, plasticizers etc.

Technology for these products has been sourced from reputed international licensors such as Air Liquide Global E & C Solutions, Germany, Mitsubishi Chemical Corporation, Japan & Johnson Matthey Davy Process Technologies, United Kingdom. This project is expected to go into production during 2019. The total investment for these petrochemical projects is approximately Rs. 16400 Crore.

Products from these two projects are expected to result in Foreign Exchange savings of in crores of rupees per annum for the country. Further, these two projects will provide employment opportunity to approximately 12000 persons during construction phase and approximately 700 persons as direct and indirect labour during the operational phase, apart from employment potential in the downstream industries. Production of these products is expected to catalyze the growth of a large number of downstream industries, growth of which was constrained due to non-availability of feedstock.

Utilizing these feedstocks available from BPCL for production of other value added products, Government of Kerala is proposed to set up a Petrochemical Park in 481 acres of land of FACT at Ambalamughal.

Kerala Industrial Infrastructure Development Corporation (KINFRA) is developing the Park. A zone is earmarked for Pharmaceutical industries also.

Skill Development Institute, Ettumanoor

BPCL along with other oil companies has promoted a Skill Development Institute (SDI) at Kochi to provide vocational training to youth and enhance their employability / entrepreneurship for the deserving youth both in Oil & Gas Industry and other Industries. First campus was set up at INKEL Business Park, Angamaly with all modern facilities in 36,542 square feet area.

A second campus is to be set up at 8 acres of leased land at Government ITI Campus, Ettumanoor, Kottayam District, Kerala. The state of art world class institute is planning to train 1000 students every year in 20 different trades in a built up area of one lakh square feet, and is expected to be operational by mid 2020.

4





Refinery Performance Improvement Programme (RPIP)

BPCL-Kochi Refinery has successfully expanded the capacity from 9.5 MMTPA to 15.5 MMTPA with the commissioning of IREP project. With the objective to increasing refinery profitability, we have started the *Refinery Performance Improvement Program (RPIP)* in Kochi Refinery. Boston Consulting Group (India) Pvt Ltd (BCG), has been engaged for RPIP implementation at BPCL KR, over a period of 3 years (2019-2021).

Major focus of RPIP shall be *Yield & Energy Optimization study towards Profitability of Refinery*. The study will also focus on improving the performance of Refinery by adopting operational changes, better maintenance and inspection

techniques with existing facilities and minor projects.

In the RPIP, M/s BCG has assured incremental Gross Refinery Margin (GRM) of 1.25 \$/bbl (min guaranteed incremental GRM of 0.15 \$/bbl) to Kochi Refinery over a period of 3 years with total capital expenditure up to 10.0 Million USD (approx. INR 70 cr).

The scope of RPIP includes identification and prioritization of opportunities for performance improvement mainly through operational excellence and through low capital investment. The main areas of study include Distillate yield and product improvement, Energy and hydrocarbon loss management, Plant availability and reliability

and Hydrogen management. Best practices from across the globe will also be shared by BCG to the refinery personnel.

The program involves analysis of refinery data as well as interaction with refinery operating personnel. A core team and another team to support the core team are already constituted to facilitate the successful implementation of the RPIP over a period of 3 years.

Kochi Refinery Kick-off meeting of the program was held on 15 January 2019. Currently, consultants from M/s BCG are interacting with Operations, Technical personnel to identify and finalize the improvement area.

Satellite Fire-Station at KR



The new Satellite Fire Station of Kochi Refinery was inaugurated by Mr. P H Kurian, IAS, Additional Chief Secretary Revenue, Govt. of Kerala on 17 January 2019. With this KR now has three fire stations strategically located within the Refinery. The new station houses facilities for four Fire Trucks and office space for round-the clock crew.



Kochi Refinery wins Kerala State Energy Conservation Award 2018

Kochi Refinery of BPCL has been conferred with the highest award in the State for Energy conservation. Mr. A. Mohanlal Menon, General Manager (P&U), Kochi Refinery received the Kerala State Energy Conservation Award 2018 from Mr. MM Mani, Hon'ble Minister for Electricity, Govt of Kerala along with KR team members Mr. P. Sengottaiyan, DGM (Energy), Mr. Madhu

KM, CM (PSM), Mr. Anand Krishnan R, AM (Electrical) and Mr. T. Gopalakrishnan Unnithan, Engineer (OM&S) at the ceremony in Thiruvananthapuram on 27 December 2018.

The Government of Kerala is the first to establish an Energy Management Centre (EMC) at the State level in India, aiming primarily to remould and instrumentalise energy sector as a catalyst in promoting a

development process which is econo-ecologically sustainable. Instituted by the EMC- Kerala, Kochi Refinery receives this award in the category of Large Scale Energy Consumers in Kerala. This is in recognition of the commendable achievements in energy conservation and management measures including steam optimization in a larger way (70 TPH) and the innovative use of plate type exchanger for increasing CDU-2 charge rate by one million ton per annum without additional fuel, a first time in any Indian Refinery.

KR bags top prizes of All Kerala Inter Oil Company HSE Quiz

BPCL Kochi Refinery has bagged both first and second prizes in the All Kerala Inter Oil Company HSE Quiz competition organised by Indian Institute of Chemical Engineers in technical collaboration with Petroleum and Explosives Safety Organisation at Hotel Novotel,

Kochi infopark on 2 December 2018.

Champions Shivam Kumar Kaushik and Vignesh Siva received the BPCL Kochi Refinery Golden Jubilee Ever Rolling Trophy and cheque for Rs. 50,000 from Mr. Madhu S Nair, Chairman & Managing Director,

Cochin Shipyard in the presence of Dr. R Venugopal, Dy. Chief Controller of Explosives (PESO), Mr. Sajo Francis, Chairman, IICChE, and Mr. Venkataraman Iyer, State Head Retail (Kerala), BPCL. RUNNERS Up HCM Gowd and Aravind R took home Rs. 25,000 as prize money.



1st Prize



2nd Prize

KR Quality Circle shine at National Convention

Kochi Refinery Quality Circle Teams have come out with flying colours and two of our teams – **Team FLARE (OM&S Dept)** and **Team SPECTRUM (Maintenance Dept)** were adjudged with 'Par Excellence' Award which is the highest awards and one **Team IGNITER (OM&S Dept)** as given the 'Award of Excellence' at the National Convention on Quality Concepts by QCFI held on 21st December 2018 at Gwalior.

Quality Circles are small group of employees working together in the same work area, doing similar work who meet at intervals, voluntarily and regularly to identify,

analyse and resolve work related problems and to devise solutions for improvements. Employees who participate in quality circles usually receive training in formal problem-solving methods—such as brainstorming, pareto analysis, and cause-and-effect diagrams—and are then encouraged to apply these methods either to specific or general company problems. After completing an analysis, they often present their findings to management and then handle implementation of approved solutions.

At KR, we organise internal case study competition for the Quality Circle Teams every year,

to help them polish their skills in case study and presentations of the problem solved in their area or work. Quality Circle Teams who won the top three positions in the Internal Case study competition at Kochi Refinery in 2018 had represented BPCL in the National Convention on Quality Concepts organised by Quality Circle Forum of India at Gwalior on 21st to 23rd of December 2018. There were nearly 2000 teams from among various industries across India who had participated in the convention.

Congratulations to the Award Winners for making us proud in a National Forum.



Team FLARE (OM&S Dept.) Krishnakumar CS (Facilitator). Team members: Joby P Symon, Bijumon Sebastian, Asokan K A and Prasad R R



Team SPECTRUM (Maintenance Dept.) Vijayan P N (Facilitator). Team members: Saji Joseph, Bibin Varghese, Saji Antony, Jinu Thomas and Bibin C Varghese



Team IGNITER (OM&S Dept.) Reji M S (Facilitator). Team members: Salim K K, Sunil Kumar E R, Jothi Kumar K P, Arunkumar K G and Jifin James



P&CS Synergy Meet

P&CS Department has become part of Projects group after the recent internal organisational restructuring and a Synergy Workshop was organised for the P&CS Team to understand the roles and

responsibilities and appreciate the transitions.

Mr. G. Kalaiselvan, former BPCL Internal Coach facilitated the programme to help the team co-create powerful and energizing vision statements reflecting their collective

aspiration for P&CS department. They have also identified action steps to be taken up with support from HR and P&CS leadership. The workshop has generated lot of positive energy, great momentum and a sense of oneness within the team.

SERVICE CITATION

25 Years



Madhavan C K
P&U



Venugopal V K
OM&S



Ajikumar P K
Mfg



Biju P N
Mfg



Prasad B S
Mfg



Manoj N S
Mfg



Aby A Rahim
Mfg



Jomon M C
Mfg



Jomy Sebastian
Mfg



Muhammed Asharaf
N P / Mfg



Abhilash K A
P&CS



Manesh D
HSE -Environment



Shajan C M
OM&S



Anil Kumar M B
OM&S



Asokan K K
P&U



Binu R
Information Systems



Abdul Salam K P
P&CS

20 Years

SUPERANNUATION



Mr. Surendran P C
who joined KR in OM&S department in Dec 1983 is retiring from P&U department.



Mr. Ravi E K
who joined KR in HR department in April 1985 is retiring from OM&S department.



Mr. Muraleedharan Nair K
who joined KR in HR department in Oct 1987 is retiring from the same department.



Mr. Sasikumar P K
who joined KR in HR department in July 1999 is retiring from OM&S department.



Mr. Ganesh P G
who joined KR in Manufacturing department in May 1985 is retiring from Petchem department.



Mr. Parameswaran C R
who joined KR in HR department in June 1994 is retiring from Fire & Safety department.

Transfers

Deputy General Manager (SHA)

Sainath C

Engineer Environment

Manesh D

Executive Assistant to ED I/C (KR)

Mahesh S

Promotions

Shift Chemist-C - QC

Seshadri Kalapati, Tony Thomas

Operator-A (OM&S)

Anil K Nair, Remash Babu J

Senior Fitter Craftsman - Maintenance

Shibu M C, Sabu K M, Sunil Kumar V G

Junior Storekeeper - Gr.IV

William Vijayan

Non-Management

KR wins Southern region Inter SBU Cricket tournament

The 8th edition of Southern Region Inter SBU Cricket tournament was held at Bengaluru, on 2-3 February 2019. The yearly feature, consisting of 4 teams, represented by Retail, Lubes, LPG & Entities and Kochi Refinery, is played on a 20 over format. KR is participating for the 5th year. They were winners during the first 3 years. Last year KR ended up as the 3rd best team.

This year's tournament was played at the HAL Sports ground, Bengaluru. The first match was played between last time winners, Retail and Lubes. Retail batting first scored 152 runs in 20 overs. Lubes also made 152 and the match was decided by the 'Super Over'. Lubes ended as winners.

In the 2nd match, KR played LPG & Entities. KR,



batting first, made only 114 runs. With some tight bowling they could restrict LPG & Entities to 87, thus winning by 27 runs. Rajesh.M.P was the 'Man of the match' for his 3 wickets for 15 runs.

In the Finals played between KR and Lubes, in a fitting farewell to Mr. PG (Ganesh), as he is fondly called by his team mates, KR overwhelmed their opponents by 152 runs. Batting first KR made 209 for 2 wickets. Ganesh scored 35 runs, in his last match for KR. Bijush made 62 (not out) and Sreekumar.M made 57 (not out). In reply Lubes were bowled out for 57 runs. Ganesh, Rajesh and Arun.A.V took 2 wickets each. Ganesh was declared the *Man of the Match* for the Finals. Rajasekhar of Retail was declared the *Man of the tournament*.

Rest in peace dear friend...

What we have once enjoyed we can never lose.

All that we love deeply becomes a part of us.

A man who passionately devoted his entire self to his family and friends. A man who relentlessly pursued every opportunity to help a fellow being in need. A man whose candor never fail to put a smile on our face that was our Gunasekaran.



Needless to say his technical prowess and his enthusiasm endeared him to everyone in the department.

In the condolence service, his colleagues tearfully remembered the wonderful human being he was, a man who found happiness in the small things of life, a man who was forever ready to lend a helping hand. In a tragic accident on 4 January 2019, he left us forever. But he will remain in our hearts forever,

Being differently abled had never been a setback for Gunasekhar who was always at the forefront to help his friends whatever be the occasion. He was so strong that nothing in this world could hope to deter him from something he believed in and such courage is truly and undoubtedly rare and praise worthy. Be it day or night he was only a call away, ever ready to fulfil his obligations at his workplace.

He is survived by his wife, Sumathi and his daughter Renuka Devi and son Velmurugan. They are students of CRS School in the 9th and 7th standards respectively. A home to call his own was his big dream that we, his colleagues have taken up as a parting gift for our dear friend.

Subramannian KP/P& U-Electrical.

CONDOLENCE

Mr. Johnson Lopuz / Maint. on the sad demise of his mother

Mr. Krishnan T B/Maint on the sad demise of his father.

Mr. P C Balachandran (P&U-Utility) on the sad demise of his mother

OBITUARY

We deeply mourn the sad demise of **Mr. Manickan A**, Badge No 80665 who passed away on 14 December 2018. He had retired from the service of Kochi Refinery on 31 October 2014 from S&OM department. He is survived by his wife Ms. Latha and daughter Manju and son Manoj.





Prasad Clemence says goodbye

Mr. Prasad Clemence's association with Kochi Refinery dates back to 1966, when he joined third standard in Cochin Refineries School at the age of 7 when there were just 20-30 students in the whole school. Grand Wilcox, an American was his classmate. After a stint of 2 years as a teacher in a School at Kottagiri and Ernakulam, Prasad joined erstwhile Cochin Refineries Limited in June 1987 as Sports Officer, in PR Section. In addition to sports, he assisted in PR & HR activities and was in charge of the administration of guest house.

His memories of Jwalagiri, the company quarters that was his abode for 22 years is fresh in his mind. After his schooling from KR school, he moved to Gwalior for his higher studies in sports and then took to teaching and later joined KR. Mr. Prasad is happy to have contributed to evolving a sports culture and the development of the indoor volleyball court and the oval ground. This was followed by a sports academy in cricket which became the spring board for many state, national and international players of distinction. He had conducted several State, National & international level Tournaments, Ranji Trophy cricket tournaments, National volleyball league tournament, Satellite International Tennis tournament at KR. He also conducted several seminars of national and international recognition and various coaching

camps during his tenure as sports officer. Sports has been his passion and he has not left any stone unturned to stimulate a penchant for sports in others. He then moved to P&CS in 2000 from where he retires as Sr. Manager (P&CS). Prasad is a lover of nature and has introduced gardens with medicinal plants in the IREP W/H area during his leisure time. He plans to take farming more seriously post-retirement.

Mr. Prasad's wife Annie Prasad, is a Teacher at Govt. Higher Secondary School, Ernakulam. They are blessed with three children. The elder daughter Elsa Prasad completed M Tech in Electrical Engineering and is also (SAP) qualified. She is working with TCS and is married to Bobby Abraham who is working in Kuwait. Their second daughter Tessa Prasad has completed her MA, B Ed and is pursuing her SAP training. Their son Clemence Prasad has completed B Tech (Electronics) and his PG Diploma in Management and has joined as a Probationary Officer at Federal Bank.

JwalaDhwani wishes Mr. Prasad Clemence and family a healthy and happy retired life.

His address: Plot No.5, Mannuparambil House, Jawahar Nagar, Kadavanthara Cochin – 682 020., Kerala.
(M): 9446483719, (E): prasad2368@yahoo.com

KMJ bids adieu

Mr. K. M. Jose, bids good bye to Kochi Refinery after a long fulfilling 35 years of service. KMJ started his career as a college lecturer and then joined Kochi Refinery in the Quality Control Department in 1984. He is now retiring from the same department. KMJ is happy that he could contribute a lot to this unique organisation that has given him so many opportunities to learn and grow. He remembers all his superiors and colleagues with gratitude.



KMJ's wife Mrs. Jessy Jose is a school teacher and they are blessed with a daughter and son. Their elder daughter Aswathy completed her MSW and is married to Mr. Robin TJ, a manager in E&C, Kochi Refinery. They have been blessed with a son and a daughter. Younger son Ajay is pursuing his Ph. D. in English literature at EFLU Hyderabad. Post retirement KMJ would like to settle and spend time at his native place.

JwalaDhwani wishes Mr. Jose and family all the very best for a peaceful and healthy retired life.

His address:
Kalayam Thanam, Muttra -44,
M.T. Road, Poonithura P.O., Petta, Ernakulam
E-mail: josekalayam@gmail.com
(M): 9400796152

Interviews by **N. Thulasidas** / P&CS

Goodbye says Joby P Symon

After 15 years of service in Indian Air Force and 5 years in business, Mr. Joby P Symon joined erstwhile Cochin Refinery in July 1999 in the security section of HR department. He then moved on to OM & S department in 2007 and is bidding farewell after completion of 19 years and 7 months.

He is very happy, satisfied and proud to have been with this great organization. Being a local man he has witnessed the birth and growth of this organization and is watching its progress with great enthusiasm. Mr. Joby appreciates the work environment of this company and conveys his sincere gratitude to his highly co-operative friends and colleagues and the teachers of CRS for providing the best education to his Children.

Mr. Joby's wife, Shancy is a teacher in St. Mary's HSS Morakkala. Their elder son Basil Sam is a

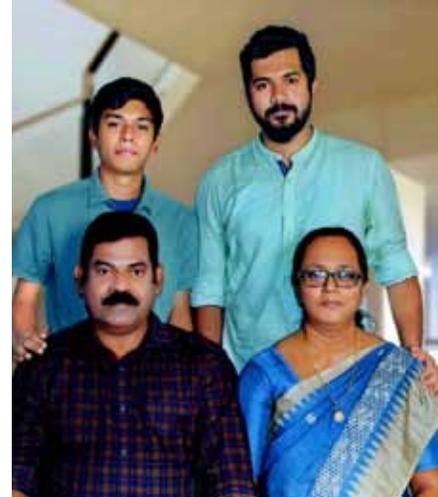
graphic designer working at Kochi and younger son Abru Sam is studying for automobile designing at Bangalore. Post retirement Mr. Joby would like to spend more time in agriculture, especially in fish farming at Pallikkana.

Jwaladhvani wishes Mr. Joby P Symon and his family a healthy and happy retired life.

His address:

Pantheplackal House,
Morakkala West, Kumarapuram P.O.
Ernakulam Dist. - 663575

(P): 0484-2681209 (M): 9446010209, 8547341209
(E): jobypsimen1959@gmail.com



Sporty Sunny bids adieu

Mr. E J Sunny bids adieu to BPCL-Kochi Refinery, after working in this Maharatna Company for over 23 years.

A complete "sports man", He started his career with Indian Air Force. He was posted in various Army & Navy Units in India during his span of 16 ½ years with IAF and eventually he retired as an NIS-qualified Volleyball coach from National Institute of Sports, Patiala. Representing Services Volleyball Team in the Nationals & Federation Cup was his major achievement as a Volleyball player. Mr. Sunny is also a Diploma-holder in Volleyball Coaching.

He joined erstwhile CRL in December 1995 in the Security Section and was later transferred to Public Relations Section of Human Resources Department, from where he retires.

He has also worked as Security Officer in Taj Residency, Ernakulam for a short stint before joining KR. He thanks BPCL Management for nurturing his skills and talents. He is also thankful to all his superiors, colleagues and friends for his memorable journey at Kochi Refinery. He conveys his sincere gratitude to all in Cochin Refineries School for grooming his children.

Mr. Sunny's wife Sara Sunny, ex-Piravom Panchayat member, is a home-maker as well as very active in social activities. They are blessed with 2 children.

Interviewed by: **Varun M/QC Lab** and **S Parameswer (HR)**

Their daughter Dr. Angel Sunny, worked in Rajagiri Hospital, Aluva for a while before joining her husband Vivek John George in the US. Vivek is a B.Tech and MS from Georgia Tech University, US working as Software Engineer in Amazon. Their son, Alan Sunny, completed his B.Com, and after short term courses in Business Accountancy & Taxation and SAP Course in Bangalore, he is pursuing his Masters in Logistics & Supply Management at Bedford Shire College, Luton, UK.

Post retirement, Mr. Sunny would like to pursue his passion of Volleyball Coaching and also spend more time fruitfully, with his family.

Jwaladhvani wishes Mr. Sunny and his family happy, peaceful and healthy days ahead.

His address:

Edayathupara (H) Piravom P.O.,
Ernakulam Dist.
(M): 8301873627



Best wishes from VV Thomas

Mr. V V Thomas hails from Kuruppanthara, Kottayam and belongs to an agricultural family. After completing his schooling from his hometown, he went on to complete his diploma in Chemical Engineering from Government Polytechnic, Kalamasseri. Later, he completed his B Tech from Trissur Engineering College.

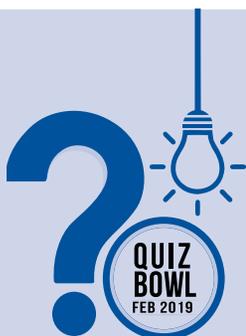
Mr. Thomas began his professional career at Trivandrum Rubber Works in 1979. After a year and a half, he moved to FACT and then joined erstwhile CRL in March 1982. He has served the organization for over 37 years, serving in various departments like OM&S, Manufacturing and Projects Department. He takes pride in being part of the Infra team that managed the Integrated Refinery Expansion Project. Post successful completion of the project, he moved to Propylene Derivative Petrochemical Project.

His wife, Annie Thomas is a teacher in St. Thomas School Kurupumthara. Their elder son, Titto Thomas is working in Canada and their younger son Tony Thomas, who completed his B.Tech in Electrical Engineering is working in Kottayam.

Post retirement, Mr. Thomas plans to devote his time to Agriculture at his home town.

JwalaDhwani wishes him health, happiness and success in all his future endeavours.

His address:
Vattappallil House, Manjoor P.O.
Kuruppanthara, Kottayam - 696603
(P): 04829 244418 (M): 9447127643



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

Send your entries to Mr. SP Quiz Bowl,
Jwaladhvani desk, BPCL Kochi Refinery,
before 25.02.2019



1. Name the shortest English word with all vowels and shortest English word without vowels.
2. What is the meaning of the term "Fugitive Economic Offender"

3. Where is the highest petrol price in India (exact location & state) and the main reason for this?
4. What is Parkinson's Law in Project Management ?
5. What is the speciality of Indian player Jasprit Bumrah's bowling action ?
6. What is a concurrent list in Indian Constitution ?
7. What does it mean in English "to be on the cusp" ?
8. Hindustan Unilever Ltd. is facing charges of profiteering under GST. What is profiteering in the context of GST ?

Answers to QB-January-2019 :

1. Kannur International Airlines Ltd. 2. Operation performed to lose weight 3. A TEDx Talk is a showcase for speakers presenting great, well-formed ideas in under 18 minutes. Technology, Entertainment & Design 4. A newspaper or magazine advertisement giving information about a product in the style of an editorial 5. Drone photography is the capture of still images and video by a remotely-operated or autonomous unmanned aerial vehicle 6. VFX are digital, made on a computer in post production. SFX are practical (props, make-up, animatronics, pyrotechnical, etc.), made on set during production 7. Tollygunge Club 8. Isha Ambani wedding celebrations at Udaipur 9. A Rupee 1 currency note carrying Shaktikanta Das's signature 10. Angel tax is a term used to refer to the income tax payable on capital raised by unlisted companies via issue of shares where the share price is seen in excess of the fair market value of the shares sold. 11. Prayagraj - Confluence or meeting place 12. Rajesh Exports

Winner of QB-January-2019 : Alex Mathew (Maint.)

Interviews by Sureshbabu/OM&S and Anurag Sharma / Projects



Republic Day in CRS

Soaked in the spirit of patriotism the 70th Republic Day was celebrated in CRS by Sagar House. The events started with the Principal and Vice Principal Mr. S. Devidayal being escorted by the NCC Cadets of 22 K Battalion. CRS Principal hoisted the flag. This was followed by a scintillating display by the band and the NCC cadets. The keynote address by the Principal emphasized the role of students

in nation building. Patriotic speeches, dances and songs further marked the celebrations. Sweets were distributed to mark the occasion.



Achievers



Bebras, an international Computational Thinking Challenge is organized over 60 countries to encourage computational thinking and problem solving skills. In the Indian chapter of this competition around 1,37,081 students from 380 schools took part. **Devika Raj**/XII, CRS has secured a spot in the National Ranking – Rank - I in this challenge. **Reshma J Nair**/XII, CRS made it to Rank - II and **Giridhar S**/IX, CRS in Rank - III.

Young Champion

Johan Shaji of Std. VI secured Gold Medal in 100m and 200m along with a Bronze Medal in long jump in the recent All Kerala CBSE Munshi Meet held at Bhavan's Eroor. He was adjudged the individual champion in the Sub Junior Category for Boys.



GYAN -2018-'19

The Mathematics department of CRS conducted an Interschool Mathematical Quiz to excite the numerical abilities of students. Forty Six teams from 20 schools participated. Bhavans Adarsha, Kakkanaad was adjudged the winner, Vidyodaya School bagged the second position and the third position was secured by Chinmaya Vidyalyaya, Vaduthala. The Chief Guest was Mrs. P.V.V Namboodiri, wife of former Mathematics teacher of CRS, Late Mr. P.V.V. Namboodiri.



संपत्ति - सब कुछ बाढ़ के पानी में डूब गया । घंटों हुई बारिश और साथ आए तूफान से महमूद और रवि का घर-परिवार भी बच न पाए । दोनों के घर भी क्षतिग्रस्त हो गए ।

ऐसी आपदा में लोग आपस में एक दूसरे की मदद न करते तो बाकी क्या रह जाता । महमूद ने आगे बढ़कर अपने प्रांत वालों की सहायता करने का निश्चय किया । रवि अपने परिवार के साथ एक कैम्प में जाकर रहने लगा । लेकिन उसकी बूढ़ी माता जी घर में फँस गई थीं । वह देखते ही देखते ऊपर उभर आते पानी में आगे बढ़ नहीं पा रही थी । रवि अपनी माता को लेकर परेशान होने लगा । उसे कुछ समझ नहीं आ रहा था कि वह अपनी माता की सहायता कैसे करें ।

वहीं बाढ़ ग्रस्त लोगों की सहायता करते वक्त महमूद की नज़र रवि के घर पर पड़ी । देखा कि उसकी माताजी बहुत तकलीफ़ से आगे बढ़ रही है । महमूद ने माता जी को नाव में चढ़ने कहा ताकि उन्हें सुरक्षित स्थान पर लेकर जाया जा सके । किन्तु उसने देखा कि माता जी नाव में चढ़ने की कोशिश कर रही है, पर चढ़ नहीं पा रही है । महमूद ने ज्यादा सोचा नहीं, उसने पानी में झुके बैठकर माता जी को नाव में चढ़ा दिया ।

फिर वह बाकी बाढ़ पीड़ित लोगों के साथ उन्हें सुरक्षा कैम्प पहुँचाया । अपनी माता जी को सही सलामत देखकर रवि की खुशी का ठिकाना नहीं रहा । रवि ने भरी आँखों से सहर्ष महमूद को गले लगा लिया ।

जहाँ एक और उन्हें बाढ़ की वजह से क्षति पहुँची, वहीं दूसरी ओर रवि एवं महमूद ने अपने साँस्कृतिक एवं धार्मिक भेदों को भुलाकर एक नई मित्रता की नींव रखी । अपनी माँ को सुरक्षित देखकर रवि भी महमूद के साथ मिलकर दूसरे बाढ़ पीड़ित लोगों की सहायता करने निकला ।

इस दुर्घटना ने जहाँ रामपुर प्रांत को काफी क्षति पहुँचाई वहीं इस दुर्घटना में लोगों ने अपने निजी स्वार्थ को भुलाकर मानव धर्म को प्रधानता दी । रवि एवं महमूद जैसे काफी मित्र बने एवं सब ने मिल जुलकर रामपुर प्रांत पहले से ज़्यादा समृद्ध और गौरवशाली बनाया ।



अंशु शालिनी/
मानव संसाधन

प्रशासनिक शब्दावली

Scale - पैमाना, माप

Scale of pay - वेतन मान

Scaling - शल्कन

Scenario - परिदृश्य

Schedule of rate - दर अनुसूची

Scheduled bank - अनुसूचित बैंक

Scheduled time - नियत समय

Scheme - योजना

Scholarship - छात्रवृत्ति

Scientific knowledge -

वैज्ञानिक जानकारी

Scope - विषय क्षेत्र

Scope of supply - आपूर्ति क्षेत्र

Scope of work - कार्य क्षेत्र

Screening - छानबीन

Screw - पेंच

Screw driver - पेंच कश

Scrip - प्रतिभूति पत्र, पर्ची

Scrutiny - संवीक्षा, छानबीन

Sealed - मोहरबंद

Seamless - सीवनरहित

Search - तलाशी, खोज

Season ticket - नियतावधि टिकट

Seasonal demand - मौसमी माँग

Seat - पीठिका

Secondary - गौण, माध्यमिक

Secret - गुप्त, गोपनीय

Section - अनुभाग, धारा

Sector, Corporate - निगमित क्षेत्र

Sector, Private - निजी क्षेत्र

Sector, Public - सरकारी क्षेत्र

Secular - धर्मनिरपेक्ष

Security - सुरक्षा, ज़मानत

Security Circuit - सुरक्षा परिधि

Security deposit - प्रतिभूति जमा

Sediments - तलछट

Segregation - अलग अलग करना

Selection committee -

चयन समिति

Self contained note - पैमाना, माप

Self explanatory - वेतन मान

Self reliance - शल्कन

Selling price - परिदृश्य

Schedule of rate - दर अनुसूची



Scheduled bank - अनुसूचित बैंक

Scheduled time - नियत समय

Scheme - योजना

Scholarship - छात्रवृत्ति

Scientific knowledge -

वैज्ञानिक जानकारी

Scope - विषय क्षेत्र

Scope of supply - आपूर्ति क्षेत्र

Scope of work - कार्य क्षेत्र

Screening - छानबीन

Screw - पेंच

Screw driver - पेंच कश

Scrip - प्रतिभूति पत्र, पर्ची

Scrutiny - संवीक्षा, छानबीन

Sealed - मोहरबंद



ജെയിംസ് ജോസഫ് വിടപറയുന്നു

ശ്രീ. ജെയിംസ് ജോസഫ്, 2001 ഏപ്രിൽ 19 മുതൽ കൊച്ചി റിഫൈനറിയിലെ യൂട്ടിലിറ്റി വിഭാഗത്തിന്റെ ഭാഗമാണ്. അദ്ദേഹം തന്റെ ഔദ്യോഗിക ജീവിതത്തിന് 2019 ജനുവരിയിൽ വിരാമം കുറിക്കുകയാണ്. 1983-ൽ പ്രീമിയർ ടയേഴ്സ് കളമശ്ശേരിയിൽ തന്റെ ഔദ്യോഗിക ജീവിതത്തിന് തുടക്കം കുറിച്ചു. പിന്നീട് 1993 ജൂലൈയിൽ CR B2 എന്ന സ്ഥാപനത്തിലേയ്ക്ക് തന്റെ സേവന മേഖല മാറ്റുകയും ചെയ്തു.

ജീവിതം കരുപിടിപ്പിക്കുന്നതിൽ നിർണ്ണായക പങ്കുവഹിച്ച കൊച്ചി റിഫൈനറിയേയും അവിടത്തെ സഹപ്രവർത്തകരേയും അദ്ദേഹം നന്ദിയോടെ സ്മരിക്കുന്നു. റിഫൈനറിയിലെ ഔദ്യോഗിക ജീവിതത്തിലെ ഏറ്റവും അഭിമാനകരവും മറക്കാനാവാത്തതുമായ മുഹൂർത്തമായി ഓർക്കുന്നത് CEMP II ന്റെ ഭാഗമായ UB-II and New N2 plant-ന്റെ erection ന്റെയും commissioning ന്റെയും ജോലിയുടെ ഭാഗമാകാൻ കഴിഞ്ഞതാണ്.

സ്നേഹിതനും സഹപാരിയും കൂടാതെ തന്റെ നാട്ടുകാരനുമാണ് QC Lab Dept. നിന്നും ഈമാസം വിരമിക്കുന്ന ശ്രീ. കെ. എം. ജോസും Projects Dept. നിന്നും വിരമിക്കുന്ന ശ്രീ. വി. വി. തോമസും.

കമ്പനിയുടെ പുരോഗതിക്കുവേണ്ടി അക്ഷീണം പരിശ്രമിക്കുന്ന തന്റെ പിൻഗാമികളോട് അദ്ദേഹത്തിന് ഒന്നുമേത്രമേ പറയാനുള്ളൂ "Safety first Safety must".

മാതാപിതാക്കളോടും തന്റെ കുടുംബത്തോടും ഒപ്പം സ്വദേശമായ കോട്ടയം ജില്ലയിലെ കുറുമ്മാളൂരിൽ റിട്ടയർമെന്റ് ജീവിതം നയിക്കാൻ ശ്രീ. ജെയിംസ് ആഗ്രഹിക്കുന്നു. ഭാര്യ റോസമ്മ, അദ്ധ്യാപകവൃദ്ധിയിൽനിന്നും വിരമിച്ചു. മകൻ ജോബി ജെയിംസ് BTech (Computer Science) ശേഷം Smart City യിൽ Valoram എന്ന സ്ഥാപനത്തിൽ ജോലി ചെയ്യുന്നു. മകൾ റീനാ ജെയിംസ് B.Tech Electronics & Communication കഴിഞ്ഞു CSB യിൽ അസിസ്റ്റന്റ് മാനേജർ ആയി പ്രവർത്തിക്കുന്നു. ഭർത്താവ് തോംസൺ സിന്റിക്രേറ്റ് ബാങ്ക് മാനേജർ ആണ്. ഇരട്ടകുട്ടികളായ ജെഫി, റെച്ചൽ ഇവരുടെ മക്കളാണ്.

തന്റെ റിട്ടയർമെന്റ് ജീവിതം കൃഷിയിൽ ശ്രദ്ധകൊടുക്കാൻ ആഗ്രഹിക്കുന്നു. അദ്ദേഹത്തിന് എല്ലാവിധ ആശംസകളും *ജാലാധനി* നേരുന്നു.

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അച്ഛൻ

ആ തമാഭിമാനത്തിന്റെ അത്യുന്നതിയിലെത്തി ആയിരം സൂര്യചന്ദ്രൻമാരെ സാക്ഷിയാക്കി പറയുന്നു

മകളേ, അച്ഛനാണു ഞാൻ കണ്ണേറുപോലും കാട്ടുതീയായി നിന്റെ മടിക്കുത്തിൽ പടരവേ

പാൽപ്പല്ലു മുളച്ചോരു കാലം മുതലേക്കേ നിന്റെ മാനത്തിനു കാവലിരിക്കുന്ന അച്ഛനാണു ഞാൻ അച്ഛൻ പ്രസവിച്ചതാണു നിന്നെ, മനസ്സുകൊണ്ട് സ്നേഹംകൊണ്ട്, അരണി കടഞ്ഞെടുത്ത ജീവിത ചുട്ടുകൊണ്ട് അച്ഛൻ പാലുടിയതാണു നിന്നെ



വരുൺ എം./ ക്യൂസി. ലാബ്

ആയിരം കഥകൾകൊണ്ട് ആലിംഗനങ്ങൾ കൊണ്ട്, മാറിലുറും നിറസ്നേഹാമൃതം കൊണ്ട് പേറ്റുനോവുമായി അമ്മ പിടയവേ അച്ഛന്റെ നെഞ്ചിലെ നീറ്റുനോവാർന്നിയാൻ?

മുടിക്കൊമ്പും കെട്ടിനീയെന്റെ തുടിതാളങ്ങൾക്ക് മാറ്റുകൂട്ടി നിന്റെ കുഞ്ഞുനോവുമെന്റെ ഉള്ളിൽ തറയ്ക്കുന്ന മുളളായി നീയെന്നേ വളർന്നാലുമെന്നിലാ കുഞ്ഞുടുപ്പിട്ട കുറുമ്മാണ്



കുറിപ്പ്:
കാമച്ചിതകൾ ആളിപ്പടരുന്ന കടലാസുകഥകളിൽ നീ കാണാതിരിക്കട്ടെ അച്ഛനെനു വിളിക്കുന്ന അസൂര ജന്മങ്ങളെ.



സഫലമീ ജീവിതം

ആറു പതിറ്റാണ്ട് കാലത്തെ ജീവിതയാത്രയിൽ തന്റെ സാങ്കേതിക പഠനസംബന്ധമായി രണ്ടു വർഷക്കാലം മലപ്പുറം ജില്ലയിലെ അരീക്കോട് എന്ന സ്ഥലത്ത് ചിലവഴിച്ചതൊഴിച്ചാൽ ഒരു സമ്പൂർണ്ണ കൊച്ചിക്കാരനായ കെ.വി.ആന്റണി കൊച്ചി റിഫൈനറിയുടെ ഔദ്യോഗിക ജീവിതത്തിൽ നിന്നും വിടവാങ്ങുകയാണ്. സ്വതസിദ്ധമായ കഠിന പ്രയത്നശീലം മറ്റൊരു ബാഹ്യ ഘടകങ്ങൾക്കും കീഴ്പ്പെടുത്താനാഗ്രഹിക്കാതെ മുന്നേറിയ അദ്ദേഹം സഹപ്രവർത്തകരുടെ പ്രിയങ്കരനായി തീർന്നതും ഇക്കാരണത്താലാണ്..

ഒരു മനുഷ്യജീവിതത്തിൽ നേടാനാകുന്നതിൽ, മിക്കതും നേടിയ അദ്ദേഹം വിടവാങ്ങുമ്പോൾ മുതൽക്കൂട്ടായി ഒരു വൻ സുഹൃദ്വലയമുണ്ട്, കൂടാതെ ആരോഗ്യവും ഒപ്പം കർമ്മനിരതനായിത്തന്നെ മുന്നേറാനുള്ള അഭിലാഷവും. കുമ്പളങ്ങി സെന്റ് പീറ്റേഴ്സ് സ്കൂൾ, ഗവ. ഐ.റ്റി.ഐ അരീക്കോട് എന്നിവിടങ്ങളിൽ വിദ്യാഭ്യാസത്തിന് ശേഷം 1982 ൽ കൊച്ചിൻ റിഫൈനറീസ് ലിമിറ്റഡിൽ അപ്രന്റീസായി. തുടർന്ന് 1983 ഡിസംബർ 1 ന് സ്ഥിരനിയമനം ലഭിച്ചു. പരസ്പര പുരകങ്ങളായ

ഇലക്ട്രിക്കൽ - മെക്കാനിക്കൽ മേഖലകളെ കൃത്യതയോടെയും, ക്ഷമയോടെയും കൈകാര്യം ചെയ്യുന്ന അദ്ദേഹത്തിന്റെ രീതി, പലപ്പോഴും പ്രകീർത്തിക്കപ്പെട്ടിട്ടുണ്ട്. 2011 ൽ ഇലക്ട്രിക്കൽ എഞ്ചിനീയറായി ഉയർച്ച കൈവരിച്ച കെ. വി. ആന്റണിയുടെ സാങ്കേതിക പ്രവർത്തനങ്ങളിൽ നൈപുണ്യം ഏറെയാണ്.

പുണിത്തുറ സെന്റ് ജോർജ് യു.പി സ്കൂളിൽ അദ്ധ്യാപികയായ ഭാര്യ ജാൻസിയുടെ പിന്തുണയോടെ കുടുംബ സൗഹൃദ ബന്ധങ്ങൾക്ക് ദൃഢത വരുത്താൻ അദ്ദേഹം അന്നും ഇന്നും ശ്രദ്ധിക്കാറുണ്ട്. രാജശിരിയിൽ നിന്നും കമ്പ്യൂട്ടർ സയൻസിൽ ബി.ടെക്ക് കഴിഞ്ഞ മകൻ എമിൽ, ഭാര്യ അമല (രണ്ട് പേരും ടി.സി.എസിൽ ജോലി ചെയ്യുന്നു), കോട്ടയം ബി.സി.എം കോളേജിൽ എം.എ. ഇംഗ്ലീഷ് അവസാന വർഷ വിദ്യാർത്ഥിനി ആൻ മേരി എന്നിവരടങ്ങിയതാണ് കെ.വി ആന്റണിയുടെ സന്തോഷ കുടുംബം.

സ്വന്തം സങ്കല്പത്തിൽ വിരിഞ്ഞ ആശയങ്ങളെ പ്രായോഗികതലത്തിൽ കൊണ്ടുവന്ന് അവയെ കമ്പനിക്ക് മുതൽക്കൂട്ടാക്കി മാറ്റിയ ഒത്തിരി ഉദാഹരണങ്ങൾ നിരത്താനുണ്ട്. അതിലൊന്നാണ് ഓഫ് സൈറ്റ് മേഖലയിൽ ഫ്ലോട്ടിങ്ങ് ടാങ്കുകളിൽ ആന്റണി ചേട്ടൻ കൊണ്ടുവന്ന “ഷെൽ ടു റൂഫ് ബൈപ്പാസ് ചാലക്” സംവിധാനം. സഹപ്രവർത്തകൻ ജിബു വർഗ്ഗീസ് ചൂണ്ടിക്കാണിക്കുന്നു. ഭാവി ജീവിതത്തിൽ ഉത്സാഹഭരിതനായിത്തന്നെ ചിലവെഴിക്കാൻ ഉദ്ദേശിക്കുന്ന അദ്ദേഹം സ്വഗൃഹപരിസരത്ത് കാർഷിക മേഖല അഭിവൃദ്ധിപ്പെടുത്തി മുന്നേറാൻ ആഗ്രഹിക്കുന്നു.

അഡ്രസ്സ്:
കെ. വി ആന്റണി, കൊല്ലശാനി ഹൗസ്, എം.ആർ.ആർ എ, 15, മാധ്യമം റോഡ്, മരട് - 682304
(M): 9446324061 (P): 0484-2706812

പൊങ്കിവിരും പൊങ്കൽ....

അണെത്തിർകും ആരമ്പമാന ആതവണെ അண்ணാന്തു അകമകിമ്ന്തു നന്റി കൂരും വിമാ .
പമഴയവൈ അണെത്തെയും അകന്റി, പുതിയവൈ പുരന്തിലു ചെയ്തിറ്റും വിമാ .
ഉമവർകണിൻ ഉന്റ തോമുണാന കാൽനടലകന്റുക്, ഉവകൈ എനും ഉണവൈ ഞട്റ്റിറ്റും വിമാ .
ഉന്റന്റർ ഉന്റവിന്റർ, നന്റർകൻ അണെവർക്കും അന്റൈ അക്കണിറ്റുപുൻ അണിവിക്കും വിമാ .
മക്സവിരറ്റു മല്യുതതം ചെയ്തു നല്ലതൊന്റു കാലെയും, ആണ്മകണെയും തെറിവു ചെയ്യും വിമാ .

മക്സൻ നീരൈക്കൊന്റു മാമൻ മകണെയും അത്തൈ മകണെയും കൂണിറ്റിറ്റു കുംമാണമിക്കും വിമാ .
പന്റന്തു വിറിന്റ ഉലകൈ പാതിയാവതു പാർത്തിലു ഇന്റൈവണാൽ ഇന്റുകും തന്തു ഇന്റൈക്കുപുറ്റു വിമാ .
കറ്റു കന്റുത കന്റുംപൈ എറ്റുതു കണവൻ കൈയാൽ ഉടൈക്തു ഉന്റു മകിമ്ന്തു മധങ്കിറ്റും വിമാ .
മക്സൻ കൊത്തൈ എറ്റുതു പാണെയിൻ വിണിംപിൾ കറ്റു, കേറ്റു എന്റണങ്കണൈ കറ്റു പോന്റുറ്റും വിമാ .
അക്സവെൽലം, പക്സറിടി, പക്സുപാൽ, പക്സന്റൈയ് കേറ്റു, പൊങ്കിവിരും പൊങ്കലോ പൊങ്കൽ വിമാ...



Nirmal R/ P&CS



Create Your Imagination and Colour Your Dreams



Dear Young Friends,

VARNAM 2019 is back! Add colours to your imagination at **VARNAM 2019, All Kerala Children's Painting Competition** being organised as part of **Oil & Gas Conservation Mass Awareness Campaign 2019**. Once again, let's join hands in conserving fuel for the future.

Gear up your brush kits and be ready on

Sunday, 10th February 2019 at Ashirbhavan, Kacheripady Ernakulam

The Competition is for 2 ¹/₂ hours, from 9.30 am.

- All Media except oil paint are permitted
- Open to all students from Std I to Std X
- Registration begins at 08.30 am.
- Entry Free
- Theme of competition will be announced at the venue
- Remember to bring proof of class

Categories

A - Std I & II

B - Std III & IV

C - Std V to VII

D - Std VIII to X

In addition to cash prizes, trophies and certificates will be presented to the winners



Consolation prize Rs 500/- each

Varnam.BPCLKR

Contact us: PUBLIC RELATIONS, BPCL KOCHI REFINERY
Ambalamugal - PO, Ernakulam - 682302, Tel: 0484-2821472/3



Dedication of Integrated Refinery Expansion Complex

