



energising lives

JWALADHWANI

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EDITORIAL

BPCL PETROCHEMICALS

Unfolding new chapters at Kochi Refinery

After the historic dedication of the prestigious Propylene Derivatives Petrochemical Plant (PDPP), by the Hon'ble Prime Minister of India in February 2021, the individual units of the first of its kind Petrochemical Complex for niche petrochemicals from BPCL were commissioned one after the other at Kochi Refinery.

In this edition, we bring you more chapters from the Petchem Diaries scripted as golden moments in the lifetime achievements of our Refinery that stands testimony to our efforts in creating history.

Kochi Refinery crossed a new milestone when it clocked 70 million accident free man-hours of operations in April 2021. This was a moment that called for celebrations as well as re-dedication of our commitment to keeping the safety flag flying high for our company.

Also as a team, we have initiated various measures for dedicating ourselves to the society in a big way in awareness building and life-saving efforts to combat the pandemic that has still not shown signs of receding.

Let us continue to fight the pandemic responsibly and take care of ourselves for our family, for our company and for our nation.

Stay Safe. Stay Healthy.

Warmly,
Editor

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OIL PSUs STEP UP TO BOOST
SUPPLY OF OXYGEN
 TO HOSPITALS ACROSS INDIA



93 PSA Oxygen Plants Being Set-Up

State	Number
Uttar Pradesh	12
Bihar	9
Karnataka	28
Kerala	7
Maharashtra	4
Gujarat	8
Rajasthan	7
Madhya Pradesh	11
Odisha	7
Total	93



SOURCE : FACEBOOK : Ministry of Petroleum & Natural Gas

Under the guidance of Hon. Prime Minister Narendra Modi and instructions of Hon. Minister. P&NG Dharmendra Pradhan PSUs of MoPNG & Ministry of Steel, Government of India are making all out efforts to respond to the nation's call in strengthening public healthcare infrastructure and ironing out blind spots in supply chains.

The oil sector is diverting 965 MT of Liquid Medical Oxygen daily. LMO in the range of 2500-3000 MT is being diverted daily to hospitals across the country by the steel sector to boost availability of medical-grade #Oxygen for treatment of Covid-19 patients. The refineries and plants have maximised the production of Liquid Medical Oxygen by reducing their own demand of oxygen for industrial use. Oil PSUs are also in the process of setting up Pressure Swing Adsorption (PSA) Medical Oxygen Generation Plants at 93 locations across the country to facilitate captive #Oxygen generation facilities at hospitals to strengthen availability and supply of medical-grade oxygen.

Bharat Petroleum Corporation Limited's Bina Refinery is entrusted with supplying 10 TPD of gaseous oxygen of 90% purity and 4 lakh litres of drinking water per day at the 1000-bed temporary Covid19 hospital being built by the MP Govt. near the refinery. Indian Oil Corporation Ltd. has been tasked with removing bottlenecks in the logistics, transport & supply of medical oxygen. IOCL is procuring ISO cryogenic containers for transport of LMO. 9 tankers have been contracted, software & app to manage the movement is under progress for roll-out.

Under the instructions of Min. Shri Dharmendra Pradhan PSUs of both MoPN&G & Steel Ministry are committed to work pro-actively and further intensify inter-ministerial coordination to offer an effective response to the health challenge and enable India fight back better and stronger.



PETCHEM MILESTONES TO CHERISH

BPCL PETCHEM PRODUCTS TRUCK LOADING GANTRY INAUGURATED & FIRST PARCEL OF N BUTANOL FLAGGED OFF FROM KOCHI REFINERY

The first parcel of Normal Butanol from the BPCL Propylene Derivatives Petrochemical Complex at Kochi Refinery was virtually flagged off by Mr. Arun Kumar Singh, Director (Marketing & Refineries), on 22 April 2021. Normal Butanol is one of the six major niche Petrochemicals being produced and marketed in 'world scale economic size capacity' for the first time in the country by BPCL from Kochi Refinery. Director (Marketing & Refineries) also inaugurated the Petrochemical Products Truck Loading Gantry.

Mr. Ravitej P V, Executive Director In-Charge (Refineries) and Mr. S Jena, Executive Director (Industrial & Commercial) joined the function virtually which was led by Mr. Sanjay Khanna, Executive Director (Kochi Refinery). The first parcels of N-Butanol was transported in ISO Containers to KLG Plasticizers, Silvassa and Rachna Plasticizers, Silvassa and in tank lorry to Visen Industries, Chennai. The product finds application in plasticizers, textile manufacture, impact modifiers for rigid PVC, amino resins and butyl amines. The annual consumption of Normal Butanol, predominantly by Plasticisers and Automotive Paint manufacturers is 60-65 TMT annually in India, which was mostly imported till now. Kochi Refinery is equipped to produce 38 TMT annually, substituting the import of Normal Butanol.

Mr. AN Sreeram, Chief General Manager (Project Technical & PETCHEM) and Mr. S Sriram, Chief General Manager (Engineering & Advisory Services) also spoke on the occasion. Hon'ble Prime Minister dedicated the PDPP Complex at Kochi Refinery on 14 February 2021. Design capacity of the Complex is 180,000 MTPA Butyl Acrylate, 10,000 MTPA 2 Ethyl Hexyl Acrylate, 47,000 MTPA Acrylic Acid, 47,000 MTPA 2 Ethyl Hexanol and 38,000 MTPA Normal Butanol.





FIRST COMMERCIAL CONSIGNMENT BPCL PETROCHEMICALS FROM KOCHI REFINERY

“ FIRST MAJOR ENDEAVOR IN INDIA, EITHER IN PUBLIC OR PRIVATE SECTOR, TO PRODUCE NICHE PETROCHEMICALS WHICH ARE PREDOMINANTLY BEING IMPORTED TO THE COUNTRY.

The first parcel of the niche Petrochemicals produced in the new Propylene Derivatives Petrochemical Complex of Bharat Petroleum Corporation Limited at Kochi Refinery was flagged off by Mr. N Vijayagopal, Director (Finance), BPCL, on 14 April 2021.

Speaking about the landmark, Mr.Vijayagopal, Director (Finance), said that this petrochemical initiative would go a long way in helping the country to narrow down the demand gap for niche Petrochemicals. “Propylene Derivatives Petrochemical Complex at BPCL Kochi Refinery marks the first major endeavor in India, either in public or private sector, to produce niche Petrochemicals which are predominantly being imported to the country. The Complex will result in savings of Rs. 4000 Crore of valuable foreign exchange,” said Mr.Vijayagopal. This marks a milestone in the petrochemical sector of the country since niche Petrochemicals are being produced and marketed in ‘world scale economic size capacity’ for the first time in the country.





A JUBILANT TEAM OF I&C AND KOCHI REFINERY

The first parcels of 22 tonnes each of Acrylic Acid produced in the new Propylene Derivatives Petrochemical Complex were transported to Bharuch in Gujarat and to Mumbai for different industries. The product was filled into bulk ISO Tank Containers for further transportation through coastal movement. The first two customers receiving the products are M/s Rossari Biotech Ltd and M/s Visen Industries Limited. Mr. Ravitej P V, Executive Director (ED) In Charge (Refineries), Mr. S Jena, ED (Industrial & Commercial), Mr. Sanjay Khanna, ED (Kochi Refinery) also spoke on the occasion. To mark the inaugural sale, Director (Finance) handed over the invoice to Mr. Vijay Nair, C&MD of Visen Industries.

Hon'ble Prime Minister of India dedicated the Propylene Derivatives Petrochemical Complex at Kochi Refinery on 14 February 2021. The capital cost for setting up the Complex was approximately Rs.6000 Crore. The PDPP complex has three units of world scale economic size capacity to produce *Acrylic Acid*, *Acrylates* and *Oxo Alcohol*. The Acrylic Acid Unit is the largest single train unit in the world (160,000 MTPA). These are the first units in the country for production of *Acrylic Acid* and *Acrylates* and Bharat Petroleum is the first company in the country to pursue a hitherto unexplored path by sourcing technology which are closely held by very few in the world for production of niche products. The official launch was telecast live from the PETCHEM complex at Kochi Refinery for BPCL members to witness it from across locations.





OXO ALCOHOL UNIT COMMISSIONED

Oxo-Alcohol Unit, one of the three units of the BPCL Propylene Derivatives Petrochemical Complex that was recently dedicated to the Nation by Hon'ble Prime Minister at Kochi Refinery, has been commissioned with the launch of the first product. Ms. Sarah Thomas, Chief General Manager (ER), launched the first product at the Oxo Alcohol Unit control room in the presence of Executive Director Mr. Sanjay Khanna, senior executives of Kochi Refinery and the Petchem Team.

THE PETCHEM COMPLEX at Kochi Refinery has three major process units which are the Acrylic Acid Unit (AA plant) Oxo Alcohol Unit (Oxo plant) and Acrylates Unit (AE plant) utilizing 250 TMT out of total 500 TMT of Polymer Grade Propylene available from Petro FCCU post IREP. The OXO ALCOHOL unit uses the LP Oxo Selector 30 technology and the unit is designed to produce N-Butanol, 2 Ethyl Hexanol and I-Butanol. Kudos to the TEAM on the dedicated and the untiring efforts for the first of its kind unit in the country



WATCH VIDEO



AN EXCELLENT YEAR 2020-21

Hearty congratulations to all Kochi Refiners for the excellent performance of our Refinery during 2020-21!

2020-21 the pandemic struck financial year, posed several challenges in maintaining the normal refinery throughput and delivering the products in ways that we never imagined. Yet, we saw this period of low product demand as an opportunity and optimized the unit operations, undertook shutdown jobs/ tackled operational hurdles without compromising on safety. In these challenging times, achieving the internal crude processing target of 13.23 MMTPA is a result of the dedicated efforts put in by TEAM KR.

MAJOR HIGHLIGHTS OF THE YEAR

- Achieved 69.90 million man hours for employees without Lost Time Accidents (equivalent to 5571 days) as on 31st March 2021.
- Processed 13.27 MMTPA of crude oil, thereby meeting the internal target for MoU “Good” Category.
- Distillate yield wt % on throughput : 86.4 wt%
- Fuel & loss wt % on throughput : 8.53 wt%
- Transportation fuel production vol % on Crude oil charge : 75.0

PERFORMANCE SUMMARY OF MAJOR PARAMETERS W.R.T. BP TARGETS:

Sl. NO.	KPI	2019-20 Actual	2020-21 BP Target	2020-21 Actuals (provisional)
1.	Crude Oil Charge, MMT	16.52	13.54*	13.27
2.	Crude Oil throughput, MMT	16.77	13.72	13.34
3.	MBN, mbtu/bbl/NRGF	68.65	71.50	70.27
4.	Safety – No. of reportable accidents	Nil	Nil	Nil
5.	Operational Availability (OA)%	99.2	99.3	99.4

*revised to 13.23 MMTPA based on product demand

PRODUCTION AND SALES RECORDS FOR A MONTH IN 2020-21:

Product	Highest ever production (TMT/month)	Previous best production (TMT/month)
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BS-VI MS	296.7 (Jan'21)	271.1 (Dec'20)
Propylene	16.44 (Mar'21)	14.05 (Nov'20)
MTO	5.26 (Jan'21)	4.47 (Oct'20)
Food Grade Hexane	1.45 (Dec'20)	0.89 (Nov'20)
Bitumen	40.7 (Mar'21)	40.1 (Jan'19)

Product	Highest ever sales (TMT/month)	Previous best sales (TMT/month)
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BS-VI MS	291.1 (Jan'21)	269.3 (Dec'20)
Propylene	15.12 (Mar'21)	15.06 (Dec'20)
MTO	4.56 (Nov'20)	4.40 (Oct'20)
Food Grade Hexane	1.50 (Dec'20)	0.89 (Nov'20)
Toluene	1.99 (Dec'20)	1.25 (Oct'16)

OTHER HIGHLIGHTS OF 2020-21

- Widened the crude oil basket of KR by processing 3 new crude oils during 2020-21 viz. Ekofisk (Norway), Bintulu (Malaysia) and Lapa (Brazil), thus making the total no. of crudes processed in KR to 99.
- Highest ever crude charge of 1573.1 TMT for the month was achieved in Jan'21 against the previous highest of 1517.0 TMT in Jan'19.
- Highest ever crude processing for the day of 53.85 TMT was achieved on 13th February 2021.
- Highest ever MS production of 10.387 TMT for the day was achieved on 23rd December 2020.
- CDU-2 charge was increased to 725 TPH against the design charge of 625 TPH on 30th January 2021.
- VGO HDS charge was increased to 258 TPH (including 68 TPH of diesel) against the design charge of 212.5 TPH on 16th January 2021.
- in the following units:

MAXIMUM THROUGHPUTS WERE ACHIEVED IN THE FOLLOWING UNITS

Unit	Throughput	Previous Best
CDU II	517.6 TMT in Jan'21	490.1 TMT in May'19
DHDS	264.9 TMT in Jan'21	263.6 TMT in July'19
CCR	100.17 TMT in Jan'21	100.13 TMT in Oct'19
VGO HDS	189.2 TMT in Jan'21	178.2 TMT in Dec'20

- Regular grade and Premium grade MTO production from DHDT unit commenced successfully on 14th and 16th May'21 respectively.
- Chemical Grade Propylene was successfully produced from FCCU LPG alone in PRU depropanizer during the PFCCU shutdown in Jul'20.
- Polymer Grade Propylene production (meeting all specifications for PDPP feed) commenced on 1st January 2021.
- First batch of VG-40 grade Bitumen was successfully produced from Biturox unit and the first truck was flagged off on 29th September 2020.
- Petcoke dispatch from KR crossed 3 million MT on 8th February 2021.
- In the wake of COVID-19 restrictions and lockdown, DHDS/VGOHDS catalyst replacement jobs were carried out using remote monitoring facility by live-streaming of the process to licensors/consultants from Netherlands, France and USA for the first time ever in May'20, thus utilizing the opportunity of low product demand for facilitating smooth production of BS-VI grade products from these units.
- CCN Merox Reactor was converted to ATF service which enabled ATF Merox unit capacity increase from 45 to 60 TPH.
- Diesel cracking was achieved in PFCCU during the low diesel demand period, thus increasing the unit gasoline yield by 2%.
- Processing of ETP recovered oil in DCU started from 5th Feb'21 onwards which aided in slop minimization.
- Oxygen enrichment scheme was commissioned for both the trains of SRU-3 in February 2021 resulting in 25% increase in the capacity.
- Internal inspection of SWSS pipeline was carried out using Remote Operated Vehicle (ROV) for the first time ever.

OTHER HIGHLIGHTS OF 2020-21 contd..

- Drone assisted online thermography of PFCCU flue gas ducts was carried out.
- Wireless vibration monitoring system (WVMS) installed and connectivity was established for crude pumps at STF facility, 20 kms away from Refinery.
- As a measure to support the Government hospitals in combating COVID-19, the first truck carrying liquid oxygen was flagged off on 12th October, 2020. Total oxygen supplied in the FY 2020-21 was 46.72 tonnes.
- Internet leased line connections were provided for PDPP remote support and video streaming for commissioning activities. DCS screen of all 3 PDPP units were shared with the respective licensors for monitoring and guiding the BPCL commissioning team.
- Implemented 14 nos. of Energy Conservation Schemes, having the potential savings of 37,480 MTOE/year & reduction of CO2 emission by 1, 18,384 MT/Year.
- On the Projects commissioning front, following milestones were achieved.
- PDPP: Acrylic acid unit was commissioned and on-spec product was routed to storage on 27th March 2021. Oxo-Alcohol unit feed cut-in was also successfully done on 31st Mar'21.
- MSBP: Feed cut-in of NHT unit was done in Mar'21.
- BPCL Kochi refinery Energy management system was upgraded from ISO: 50001:2011 to ISO 50001:2018 and obtained EnMS certification from M/s TUV India Pvt. Ltd. without appointing an external consultant in spite of the challenges posed by the pandemic.

AWARDS & RECOGNITIONS:

- BPCL won "ASSOCHAM Innovators' Excellence Awards 2020" for Kochi Refinery's 'Digital Twin Refinery Emission Model'.
- Kochi Refinery bagged Apex India Foundation Green Leaf 2019 Platinum Award in Petroleum refinery sector for outstanding achievement in Environment Excellence.
- Kochi Refinery bagged Prestigious 'Excellence in Crisis Meritorious Award 2020' in recognition of KR's collaborative effort as 'Crisis Innovators' for the unique shutdown (remote supervision of catalyst replacement in DHDS and VGOHDS) during a pandemic.
- BPCL KR Won Certificate of Merit in NECA (National Energy Conservation Awards) 2020 (organized by Bureau of Energy Efficiency).
- Kochi Refinery bagged the Refinery Performance Improvement Awards for the year 2019-20 as declared by Centre for High Technology.

With this, I would like to congratulate all the Kochi Refiners yet again, for the outstanding performance during a difficult year 2020-21. Let us continue to perform exceptionally well in the years to come and shine ever brighter.

Chacko M Jose
Chief General Manager (Operations)



BPCL EXTENDS OXYGEN SUPPORT FROM KOCHI REFINERY AGAIN

In the intense second wave of COVID-19, BPCL extends "Oxygen" support from Kochi Refinery. BPCL along with its business partner Air Products has commenced the supply of medical oxygen from Kochi Refinery again this year in view of shortage of the same for critical patients of COVID-19. The first parcel of Medical oxygen from Kochi Refinery this year was flagged off on 19 April 2021.

BPCL will be supplying around 1.5 tonnes per day of medical oxygen to Government Hospitals In Ernakulam District from this facility. The truck carrying the first parcel of Liquid Oxygen for this year was flagged off by Mr. S Suhas, IAS, District Collector on 19 April 2021 in the presence of Mr. Sanjay Khanna, Executive Director (Kochi Refinery), Dr R Venugopal, Deputy Chief Controller of Explosives, (PESO), Mr. Sooraj Krishnan, Joint Director, Factories & Boilers, Mr. Jaishankar Krishnan, Factory Manager, Airproducts, Dr. Ravi, President, Indian Medical Association and Dr Junaid Rehaman, Former DMO & Medical Director, Sudheendra Medical Mission, were present. Last year, BPCL supplied 46 tonnes of medical oxygen when the average daily cases spiked in October-November 2020. The build-own-operate (BOO) unit of Kochi Refinery has a provision to produce and store liquid oxygen of 99.7% purity.

VACCINATION DRIVE AT KR

Mr. Sanjay Khanna, Executive Director (Kochi Refinery) inaugurated the COVID vaccination camp for employees organised by the KR Occupational Health Centre at the Ambalamugal Medical Aid Society (AMAS) on 16 April 2021. At this first camp by Kochi Refinery around 150 including spouse, above 45 years of age participated. Meanwhile, employees have also taken the vaccination at other hospitals once the vaccination drive was announced for 45+.





SAFETY EXCELLENCE

KOCHI REFINERY SETS PLATINUM RECORD



Kochi Refinery, the largest PSU Refinery in India has set a historic record of 70 Million accident free man hours. The platinum record of 70 Million hours crossed on 09 April 2021, equates to 5579 days which is 15 years, 3 Months and 10 days without *Lost Time Accidents*. A commemorative event to celebrate this historic Platinum record in safety excellence was organised at Kochi Refinery on 12 April 2021.

Mr. N Vijayagopal, Director (Finance) BPCL was the Chief Guest of this special event where he hoisted the Safety Flag to mark the occasion to rededicate ourselves to Safety in all respects. Mr. Vijayagopal shared his pride of being part of the safety journey of Kochi Refinery both as member of the team earlier and on the special occasion of the Platinum record. Congratulating Team Kochi Refinery, Director (F) expressed that the milestone has been achieved through concerted efforts and deep commitment from each and every employee of the refinery and the whole hearted cooperation from all BPCians at large. Director also reminded everyone that along with great accolades comes the responsibility to deliver safely, and hence this new record is a bigger promise that has to be upheld by all. After receiving the guard of honour from the CISF Contingent, Director Finance hoisted the Safety flag and subsequently delivered the Safety message.

Earlier in his communique to KR employees on the new saga of excellence, Mr. Sanjay Khanna, Executive Director (Kochi Refinery) had expressed his confidence in leading a team that believes Safety is not expensive, but priceless. At the Platinum record event, ED(KR) reiterated his joy on being part of the glorious achievement of 70 Million Accident Free Man Hours and applauded the MSBP and PDPP commissioning teams for the highest priority given to safe commissioning of both projects. ED (KR) expressed that world class facilities, highly dedicated and skilled man power and the high level of automation and digitalization are the main constituents of the Safety excellence achieved by Kochi Refinery. Contd.>>>





Mr. Subramoni Iyer, Executive Director (Mumbai Refinery), who was a part of the KR team for a great span of his career expressed his satisfaction on the implementation of *Process Safety Management* in Kochi Refinery. He was also appreciative of the process by which near-misses are reported, root causes are analysed and actions are taken to avoid the recurrence of such incidents.

Mr. Chacko M Jose, Chief General Manager (Operations), Kochi Refinery considers this achievement as a dream come true and the Safety records achieved during the commissioning of MSBP and PDPP as feathers on the cap of Kochi Refinery. He too reminded not to be complacent on laurels and achievements, but to also take care and also focus more on Contractor Safety, as they form a critical part of the KR Community. Mr. Ajith Kumar K, Chief General Manager (Projects), Kochi Refinery was happy that BPCL Kochi Refinery has proved that we are one of the Safest places in the country. He also shared that every member of Kochi Refinery has to take a personal oath to continue to preserve it as the safest place to work.

At this ceremony, employees were also felicitated for their alertness on the job. A high potential Process Safety Event was averted in the Oxo alcohol unit of PDPP with the timely intervention by PDPP operators and technicians. In recognition of their mindful efforts, a certificate of appreciation was presented by the Chief Guest to M/s. Rajesh E R, (Engineer), Biju T R (Operator –A), Anilkumar K (Senior Instrument Craftsman), Cijo M Madavana (Operator – C), Sonu Kumar (General Workman A) and Rapeti Bhanukumar (General Workman B).

Earlier, Mr. Ramachandran M K, General Manager (HSE)/C administered the Safety pledge that was taken by all employees. At the close of the event, he also proposed the vote of thanks. The entire event was shared LIVE on Microsoft Teams for all of BPCL to witness the safety record moment and also take pride in the new benchmark set by Kochi Refinery.





SAFETY WEBINAR

LEARNING FROM EXPERIENCE

Learning from our own mistakes had been instrumental on the road to the 70 Million accident free man-hours achievement recorded by Kochi Refinery early this month.

The webinar- Learning from experience organised by Kochi Refinery to commemorate the Platinum record in safety excellence, had discussions on case studies of incidents across BPCL to avoid the recurrence of the same at any location. Mr. Sanjay Khanna, Executive Director (Kochi Refinery) formally inaugurated the session. He urged both KR and MR to share the experiences regularly and make a data base so that it would be a good reference for operating staff to learn from such collective experience. Mr. Ravi Pratap Singh, Executive Director (HSSE), Corporate HSSE delivered the key note address where he congratulated BPCL Kochi Refinery on the 70 million accident free man-hours record. He also reminded that BPCL Refineries have to focus more on contractor safety management to strengthen the five tier system developed by Corporate HSSE.

Mr. Arun Kumar Das, General Manager (HSSE) Mumbai Refinery, felicitated and shared at length about being a "safety man" from Kochi Refinery. Mr. Ramachandran M K, General Manager (HSE)I/C moderated the webinar. Case studies of incidents were presented by M/s. Madhu K M, CM (PSM) and Harsh Kumar, Asst Manager (Mfg2-FCCU) from Kochi Refinery; Sasi I, DGM (PSM) from Mumbai Refinery and P K Kulkarni, GM (HSSE) and Rajeswara Rao, Manager (HSSE) from Corporate HSSE. The webinar that was open to all was broadcast live across the corporation and received good participation. The incidents shared were real eye openers, as per the feedback received from online participants. Concluding remarks and gratitude was expressed by Mr. Yatheendran M R, GM (Electrical and Contractor safety), Kochi Refinery



BEST WISHES TO COLLEAGUES SUPERANNUATING THIS MONTH



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



Toms Varghese joined the organization in the QC Department in 1985 and is retiring from Environment Department this month.



Lally Mathew joined the organization in the HR Department in 1995 and is retiring from the Occupational Health Centre in HR this month.

Happy
Birthday

VIEW AND WISH
KOCHEREFINERS CELEBRATING
THEIR SPECIAL DAY IN
APRIL 2021. CLICK ON THE
CAKE TO WISH THEM WELL .

LOGON TO KR SOCIAL MEDIA TO
WISH OUR TEAM MATES DAILY ON
[FACEBOOK](#) AND [TWITTER](#)



CONGRATS ON CROSSING YOUR CAREER MILESTONES

30 Years



Balagangadharan K CPO(KR)



Balachandran V P OM & S



Saju Philip OM & S



Rahul K S OM & S



Rajeev K G Maint



Sajeewan K S OM & S



Anilkumar U V P&U Electrical



Joshy Jose OM & S



Kuriachan K P Mfg II



Ibrahim Kutty M K P&U Electrical



Sanil Kumar T Maintenance



Sirosh K Vijayan Maintenance



Saju K S Maintenance



Latheesh Kumar C K / QC



Sunilkumar K N Mfg II



Mani P H S Projects - Polyols



Sunilkumar C P Fire & Safety



Raman R Maintenance



Jayasree Chandrasekhar / HR



Muraleedharan Pillai N / P&U



Suresh Kumar K K / Mfg I

20 Years



Anand Babu B AS-Inspection



N Jayaprakash Maintenance



Harish Lodwal Maintenance



Prasanth K S AS-Inspection



Joseph Rajan OM & S



Vinayakumar P J P&U Electrical



Mahamed Iqbal S QC



James P L HR



Vijayan A N OM & S



Sasidharan Pillai N / F&S



Charles Stephen Projects - C & S



Useph P K Maintenance



Sathya Kumar K V Projects-C&S



Rajeev K Projects-C&S



Rajeev Krishnan B / F&S



Sunilkumar C B QC



Shaji A K Mfg II



Sibi Varghese Finance



Vimal Kumar P Projects



Vivek V Prabhu MSBP

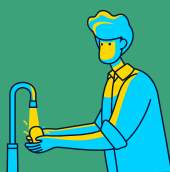


Sanu Sudhi Mfg

15 Years

Protect yourself and others with the help of this

Safety Checklist



Wash your hands with soap and water for 20 seconds or more.



If your hands are not visibly dirty, clean them frequently with alcohol-based hand sanitizer.



Cover your mouth and nose when coughing or sneezing. Use tissue or your flexed elbow.



Wear a mask or face shield when outside your house.



Seek medical care early if you have a cough, fever, or are experiencing difficulty breathing.



Practice social distancing by keeping a 2m or 6ft distance from others.

Together let's crush the curve.
Together let's stop the spread!