

The CEO Award for Health, Safety, Security and Environment Concludes by Announcing the Names of the Winners



After long months of anticipation and waiting, the Acting CEO, Mr. Walid Al-Badr, announced the winners of the 4th CEO Award for Health, Safety, Security and Environment and unveiled the best projects for health, safety, security and environment in the company during the year 2021/2022, during the closing ceremony that was held virtually on Thursday March 31, 2022.



The Acting CEO, Mr. Waleed Al-Badr, said that This year's participation reflects the tireless pursuit of reducing potential risks, injuries and accidents in the workplace to ensure the safety of individuals and operations. He has also commended the advanced projects this year despite the challenges posed by the pandemic, which reflected a distinct culture to enhance the performance of health, safety, security, environment and shared responsibility for making a difference. The Act. CEO has also pointed out the distinguished participation of the contractors of the Al-Zour complex projects and their great role in establishing the highest standards of health, safety, security and the environment and supporting KIPIC's efforts to ensure the safe operation in its projects. And in the end the Act CEO valued the contributions of the children of the employees, children and youth, who were distinguished by their innovative ideas and drawings.

For his part, the Chairman of CEO HSSE award Steering Committee, Mr. Dhari Al-Gharaballi, who also holds the position of Manager of Health, Safety and Environment Group, praised the distinguished competitive atmosphere and keenness to improve the performance of health, safety and environment, consolidate social responsibility, and implement the health, safety, security and environment strategy to achieve leadership in performance. He explained that the CEO Award, in its fourth year, witnessed a



great turnout by employees and contractors, which exceeded all expectations, as the total number of participations reached 130.

During the celebration, the following projects were honored:

- **Supreme Winner:** KONNECT App Geo Attendance, where the team includes Aasem Y. Abdulrahman, Zainab S. Garashi, Yousef Y. Alzanki, and Mohammad A. Alshemali
- **Award for the best project in the field of health:** Kuwait Ministry of Health (MOH) Licensing of KIPIC LNGI Clinic, including the following members, Musaed M. Al-Arada, Dr. Alaa Al Mansour, Vasudeva Menon, George Saju Thachil, Abdullah Ibrahim Al-Mansour.
- **Award for the best project in the field of safety:** Best Near Miss / HSE Suggestions Award Program, where the members were; Ali Ahmad Almirza, Mansour Mezyad Alazmi, Hanan Al-Khalfan, Abdulmuhsen Alghareeb, Sudhagaran Alagarsamy.

- **Award for the best project in the field of security:** Mission and Action Plan to Control Marine Intruders Incidents, the project members were Faisal Hashim Hasan Alrefai, Yousef Ahmed Al-Omran, Altaf Younes Al-Terkait, Mahmoud Lotfy El-Sayed, Muzaffar Sultan Kazi
- **Award for the best project in the field of environment:** Modification of degassing system to comply with KEPA limit of SO2 from SRU stack, where the team included Salem Al-Hajeri Fahad Al-Mubayedh, Abdullah Al-Fahhad, Diana Sanchez, Umang Agarwal
- **Award for the best project in the field of Emergency & Fire:** Emergency First Responders Roles & Responsibilities Cards, and the team the included Abdullah Alrayes, Abdullah Alabdulhadi, Hamad Almasoud, Ali Hasan Taleb, Dana Bin Mohammad.
- **Award for the best project in the field of HSSE Awareness:** COVID -19 Reporting System, where the winning team members are Ghanim Alali, Dr. Alaa Almansour, Abdullah Alhuwaishel, Majda Alazmi, Abdullateef Al-Terkait.
- **Award for the Individuals with Outstanding HSSE efforts:** and the winners were as follows, Ibrahim Abdulaziz Al-Shammari, Abdulrahman Al-Wazzan, Abdullah, Abdulaziz Jassem Al-Kandari, Mohammad Jaleel Boushahri and Yousef Jassem Mohammad Mansour.

The CEO Award



The CEO has also honoured both the winners from the Contractors and subcontractor's category, the winners were NBTC, and Al Ghanim International General Trading & Contracting Co. followed by honouring the HSE Hard Hat Award Winners, and the winner contractors are Hyundai Engineering & Construction Co., Ltd, EIFFAGE GC Marine, SK Engineering & Construction Co., Ltd Joint Venture (HSS JV), Technicas Reunidas, Sinopec, Hanwa Joint Venture (TSH JV) , and Saipem, Essar Joint Venture (SPES JV).

It is worth mentioning that the youth and children's employees category winners list included the following: Abdulaziz Al- Najdi, Sandra Jaison, Devnath Brijesh, Revanth Sivashankar, Moukthika Manikandan, Rakshana Sivashankar, Kamalika Manikandan, Sridha Sreemon, Janetta Chacko, Qamar, Vanisha Bondhade, Jerusha Chacko, Naisha Mewada, Kinshuk Mewada, Sanvi Bondhade.



Honor Pictures





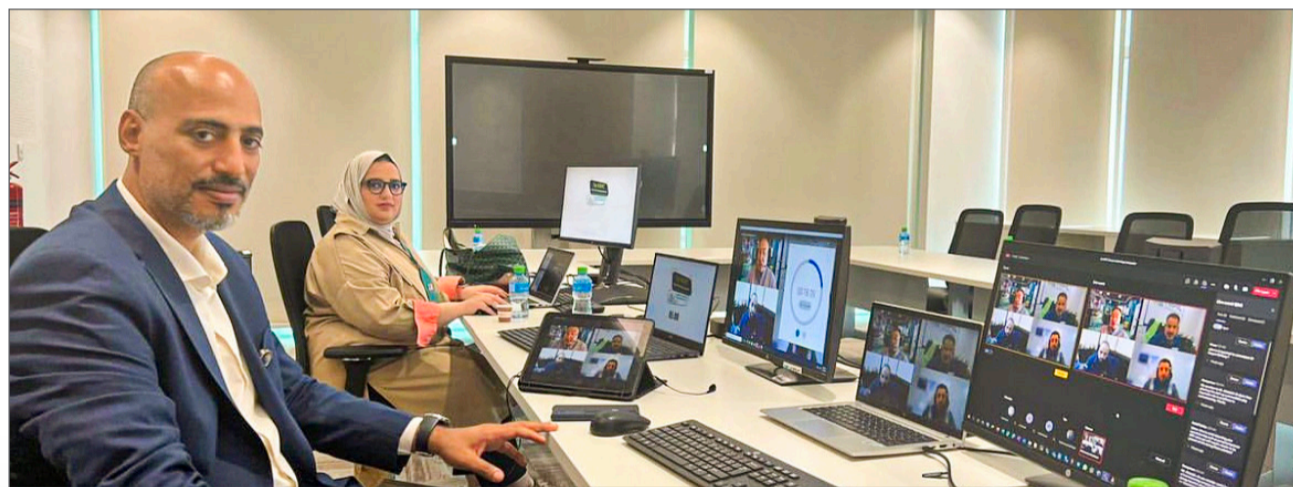
The Largest Global Symposium Specialized in the Field of Commissioning

Kuwait Integrated Petroleum Industries Company (KIPIC) has succeeded in organizing the first Process Technology Symposium, which was launched virtually, on Thursday, March 10, 2022, under the slogan "Towards Excellence in Commissioning". The symposium was graciously sponsored by the DCEO of Al-Zour Refinery, Mr. Khaled Al-Awadi, and the attention of a group of experienced professionals and specialists around the world in the oil and gas sector who came from different backgrounds to share best practices in commissioning. During the symposium, distinguished content was presented through presentations of the latest technologies and innovations. In the field of employment and seminars, making it the largest specialized international symposium held in the field of commissioning.

A group of KIPIC's engineers participated in the conference, either with working papers or through the symposium technical committee headed by the Manager of Technical Services Group (Al-Zour Refinery), Mr. Ali Al-Ajmi. It represented a valuable opportunity to learn, exchange knowledge and benefit from the various

experiences and their diversity that were presented during the seminars, where experts and consultants in the field of operations met from the Kuwait National Petroleum Company, Saudi Aramco, DUQM Refinery, Bapco Company, Yasof Company, Shell Company, Honeywell, and Haldor Topsoe.

It is worth noting that the symposium comes at a time when KIPIC is taking accelerated steps towards the full operation of the Al-Zour refinery, which reflects the utmost importance that the company attaches to achieving operational excellence as a vital factor in the industry to maximize profits, avoid delays in operation and reduce exposure to risks. The symposium brings together a group of experienced professionals and specialists from around the world in the oil and gas sector who came from different backgrounds to share best practices in operations, during which distinguished content will be presented through presentations of the latest technologies and innovations in the field of operation and panel discussions, making it the largest specialized global symposium held in the field of operation.





Resumption of Personal Training Courses

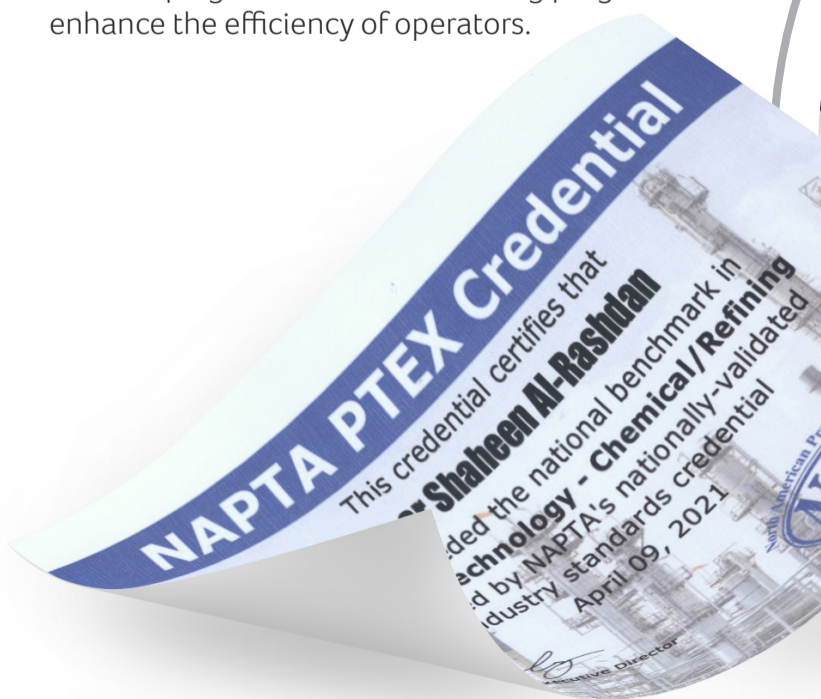
In conjunction with the complete return to normal life, the Training and Career Development Group resumes holding personal customized training courses for KIPIC employees by organizing a Competency-Development Training Program for 8 newly hired engineers from the Maintenance Group with Emerson Automation Solutions, after a two-year hiatus.

This is the first customized personal training course after 2020, with a duration of 4.5 weeks and will be conducted at the Emerson's facility in Kuwait.



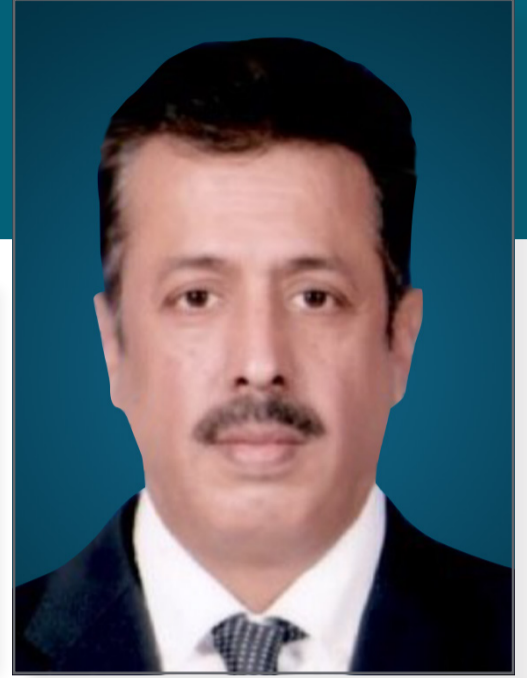
Process Technology Testing for Al-Zour Refinery Operators

Al-Zour Refinery Operations Group expressed its happiness with the success of a group of newly appointed field operators in the Process technology test licensed by the North American Process Technology Alliance, by completing 18 training programs. The number of operators who underwent training is 138 operators. The program provides the opportunity to acquire technical knowledge according to the highest international industry standards. Operations Group is developing more technical training programs to enhance the efficiency of operators.



KIPIC Obtains International Accreditation as a Qualified Center to Conduct a Competency Assessment

Al-Zour Refinery Operations Group succeeded in obtaining the international accreditation of KIPIC as a qualified center in the field of conducting competency assessment by the Offshore Petroleum Industry Training Organization, as the company was able to obtain the organization's certification of the competence of its operators according to recognized international standards. The program will also enable the company to evaluate and record the work performance and basic knowledge of the operators. The accreditation of the KIPIC Center and approval of the standards was obtained by the operations team and consultants on December 16, 2021 after multiple audits. It is planned to conduct an assessment of about 450 operators under this program through assessors and investigators accredited by the Offshore Oil Industry Training Organization to ensure the operators' competence to operate the prospective refinery.



Honoring the Participants in Shamel Exercise exercise 7

Within the framework of the keenness to create a stimulating and motivating work environment for giving, the DCEO of Petrochemicals & LNGI, Mr. Abdullah Fahad Al-Ajmi, was keen to honor the firefighters participating in Shamel exercise 7, which was held under the patronage and presence of His Highness Sheikh Sabah Khaled Al-Hamad Al-Sabah, Prime Minister, with the implementation of the General Fire Force last January. Al-Ajmi, who also holds the position of Acting DCEO of Financial and Administrative

Affairs, valued the cooperation and coordination he witnessed among the participants, praising the high performance that came as a result of planning, training and working as a team, expressing thanks to everyone who participated, planned, trained and contributed to the success of the (Shamil 7) exercise, which strengthened from the company's image and superiority despite its recent inception, as well as achieving constructive cooperation and communication with the various state authorities.





Al-Ansari Puts Kuwait into the Guinness Book of Records with the largest Flag in the World

Engineer Muhammad Al-Ansari volunteered with the Kuwaiti Team that raised the longest flag of the State of Kuwait on the highest summit of Jebel Shams in the Sultanate of Oman. He was able to put Kuwait in the Guinness Book of Records for this tremendous achievement. This was also done in line with the celebration of Kuwait's National Day. Our following meeting came with him to shed light on this achievement:

1. First tells us about yourself?

Mohammed Al-Ansari holds a bachelor's degree in Chemical Engineering from the University of Leeds in the United Kingdom and a Master's degree in Advanced Chemical Engineering from Imperial College London, United Kingdom.

2. When did you join KIPIC?

I joined the company in early 2018 by working with Major Projects Group group -petrochemical project-, where I participated in the initial engineering design phase and spent two and a half years on this project. After that, I moved to the Major Projects Group(LNGI Project), where I participated in the pre-commissioning, commissioning and quality testing phases.

3. What is your passion/hobby?

Squash, skiing, climbing and obstacle course races.

4. You have participated in a volunteer team to raise the flag of Kuwait on the highest mountains of the Arab world, "Jabal Shams" in the Sultanate of Oman. Could you brief us about the participation?

I have been with the K Flag team since 2019, and the climb to the summit of Mount Dupalm in the Himalayas in Nepal was my first participation in the same year to raise the flag of Kuwait, but we were not lucky to set the record because some conditions were not met. After that, the team members headed by the team leader M. Fouad Qabazard worked for applying all the conditions required by the Guinness Book of Records and have chosen the top of Jebel Shams in the Sultanate of Oman to raise the flag in conjunction with Kuwait's celebrations of the National Day.

5. How tall is the flag?

The dimensions of the flag are 100 meters in length and 30 meters in width, which is approximately the size of a football field, and the weight of the flag is approximately 160 kilograms.

6. What challenges did you face?

- Off-road to reach the top and required fitness.
- The length, size and weight of the flag; It was necessary to take into account the speed and direction of the wind, as the flag is made of parachute and if the wind speed increases, the flag can fly accompanied by any person.
- In order to avoid the flag flying and to ensure the safety of the team members, the team leader worked on developing a plan to place the flag in stages and install the ropes on the mountain before releasing it.

Thanks God, the process was smooth and carried out successfully, and a new record was set in the Guinness Book of Records as the largest flag on top of a mountain.

7. How were the preparations?

- Most of the team members were physically ready because they practiced different physical sports, including running, weights and endurance sports.
- Prepare the flag before the trip by bending and folding it to take up as little space as possible in the plane.
- Communicating with Husak Company to provide the equipment required for climbing and camping with some Omanis for guidance and inference about the appropriate way to reach the summit.

8. How would you describe the experience?

A tiring and arduous experience, but very beautiful and unique. The new world record also indicates the determination to perpetuate the name of our dear homeland in this world record and raise the name of the State of Kuwait high in international forums.

9. Do you have new plans?

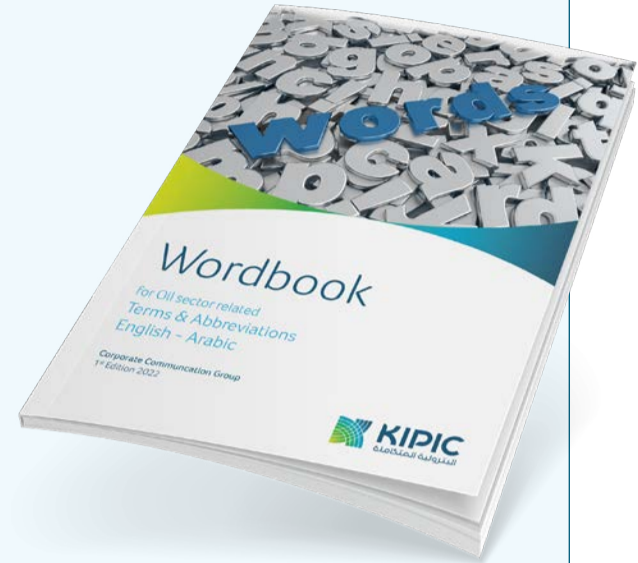
Of course, the team seeks to prepare new journeys and adventures with a different features.

10. Do you have any additions?

Thank you for inviting me to this interview with the Corporate Communication Group in KIPIC. I would also like to thank the brothers in the Sultanate of Oman for their generosity and assistance to the team in achieving this achievement, and in conclusion, I thank all the members of the K Flag team for the beautiful work they did to register this record in the Guinness Book of Records on behalf of the State of Kuwait.



Al-Marzouk Finishes the First Dictionary of Terms in KIPIC



The Corporate Communication Group has released KIPIC's first glossary. It has been developed a booklet in both English and Arabic and it been published on the company's internal portal as a first stage. This work is the result of a distinguished and great effort of our colleague Ms. Moudhi Al-Marzouk from Corporate Communications Group, in cooperation with KIPIC's groups. Ms. Al-Marzouk had received a special honor from the Group Manager , Mr. Fayez Al-Mathkoor. In the following lines, our colleague Moudhi sheds light on this version:

• Do we have a brief about the dictionary and its content?

It is a glossary that contains approximately 795 terms and 1,485 abbreviations in the oil sector. This dictionary is the first of its kind which was established in both Arabic and English and further updated version to be provided in the coming years.

• What is its importance and how will it contribute to the promotion of work?

The glossary is a new tool that supports employees in the oil sector, to contribute to the strengthening knowledge bridges and

spreading awareness of terms used among KIPIC employees from different groups, in addition to enhancing the company's image and reputation among the K-companies and third parties. It has been developed in both English and Arabic and it's available on the company's internal portal as a first stage.

• What challenges did you face while preparing the glossary?

I faced a number of challenges such as:

- Addressing groups to provide us with their acronyms and common terms in both Arabic and English

- Arrange these terms and abbreviations alphabetically

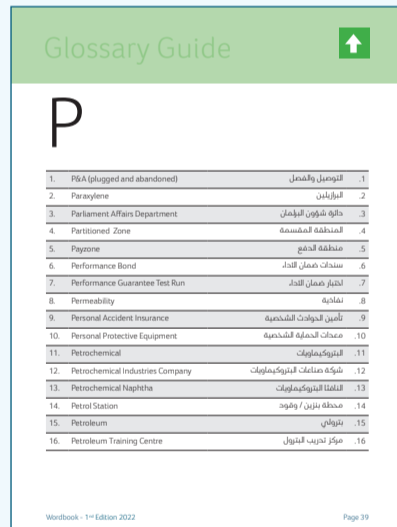
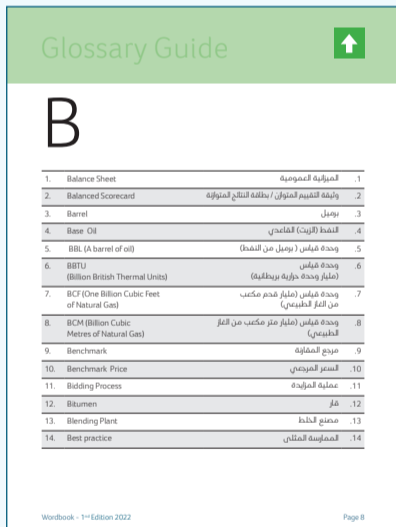
- Time factor , since it has to be published before March 2022.

• How long did it take to work on the glossary?

The idea of building such a glossary was initiated in March 2021 and the launching of the booklet was in February 2022

• Do you have any addition?

I would like to thank all the groups that contributed to the success of this glossary.



Launching the official portal page for PSM

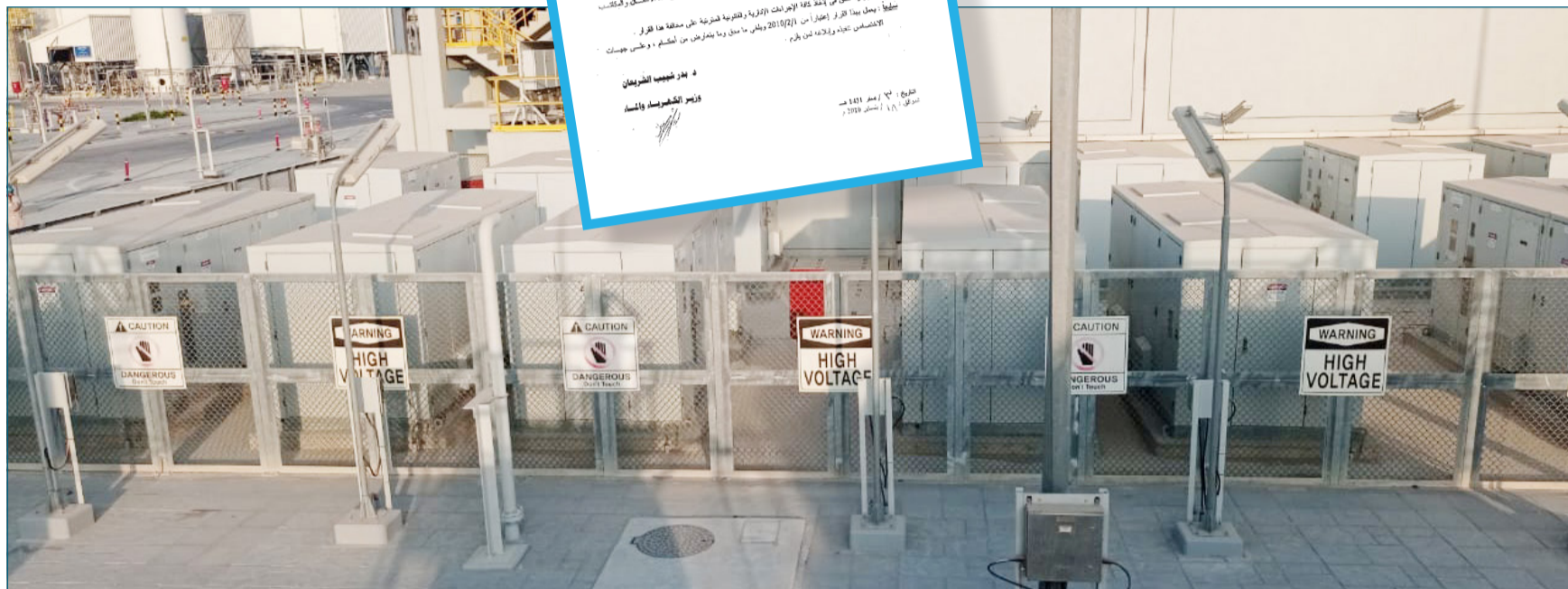
The Process Safety Management Team (PSM) in the Al-Zour Refinery Maintenance Group launched the group's official page, in cooperation with the Information Technology Group, on the internal website of KIPIC. The page allows employees to review everything related to the Maintenance Group.



Implementation of Power Factor Improvement in newly constructed LNGI Plant



Article by our colleague:
Eng. Bader Jeragh
TPL Specialist
(Engineering & Projects)



KIPIC Al-Zour LNG Terminal is constructed to receive Liquefied Natural Gas (LNG) from LNG carriers to meet the natural gas demand for the Kuwait gas network and consumers. Total power requirement for the LNGI Plant is to the tune of 75 MVA. Al-Zour LNGI has been designed & implemented Energy conservation techniques to support Energy provider, Ministry of Electricity & Water, Kuwait.

Power requirements are growing day by day in Kuwait to cater to the (Energy Demand) requirements of new domestic as well as Industrial Projects, which signifies any nation's progress. Electrical power generated need to be used wisely to minimize the losses during transmission and distribution to the consumers, as "Energy Saved is Energy Produced". In order to enhance the Energy Conservation, techniques like usage of LED lamps for lighting, energy efficient design for HVAC systems for buildings and Electrical Power Factor (p.f) correction are being followed.

There are three (3) types of Power "Active", "Reactive" and "Apparent" which are related to one another in trigonometric form in the form of power triangle. Active Power is measured in Watts (W) and Reactive Power is measured in Volt-amperes reactive (VAR). Active power and Reactive Power together make up Apparent Power which is measured in Volt-Amperes (VA). Power Factor is defined as the ratio of Active power to Apparent power (i.e., $p.f = W/VA$) and generally ranges from a value of 0.7 to 0.85 depending upon the type of load in the industry.

Motors, Transformers in the industries are the main sources of lagging (inductive) power. In order to control excessive lagging power, Capacitors are connected in the power circuits. Since Capacitors are the source of leading power, they compensate the lagging power, thereby reduces the Reactive power losses in the Electrical system.

In the recently commissioned LNGI plant at KIPIC, Automatic Capacitor banks are provided in power system at 6.6 KV level for power factor correction. 16 nos. of Outdoor type Capacitor Banks, totaling to 24 MVAR are in service in the LNGI plant whose power system capability is 75 MVA. These capacitor bank units are installed outside of Main Electrical Substation occupying a plot area of about 300 sq.m (26 M X 12 M).

Each power capacitor banks are provided with 'power factor controller' on the feeding switchgear panels located inside the Main Electrical Substation of LNGI Plant. Capacitor banks are automatically switched ON and OFF in 'Stages' according to the



measured value of the reactive current prevailing in the system to reach the target power factor of 0.97 (greater than 0.95) as stipulated by Ministry of Electricity & Water (MEW), Kuwait.

Considering average power factor of 0.8 for the LNGI plant with 60 MW design capacity, it is worth to note that power saving is $60 \times (0.97 - 0.80)$ which is approximately 10 MW. On account of power factor improvement implementation in LNGI plant, KIPIC extends supporting hand to the National Electrical power grid in effective utilization of power produced as 10 MW Energy saved is equal to 10 MW Energy produced

