JEL INSIDER

Batu Hijau Combined Cycle Power Plant

2022 marks the year of new milestones for JEL's history!
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DEC 2022

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JEL

RISE TO THE CHALLENGE

Batu Hijau Combined Cycle Power Plant (BHCCPP-1) Project

2022 marks the year of new milestones for JEL's history! As 2022 draws to an end, JEL Group has successfully secured 2 major contracts.

Back in February 2022, PT Amman Mineral Nusa Tenggara (AMMAN), a leading mining company in Indonesia, issued a Request for Proposal to invite qualified international bidders to submit bids for the BHCCPP-1 Power Plant. In the span of 6 months, JEL and PTJEL worked tirelessly to complete the bid preparation, submission, technical clarifications, contract negotiations and finally signed the contract on 26 August. On that momentous day, JEL and PTJEL signed an equipment supply agreement and an EPC agreement respectively for the BHCCPP-1 Power Plant with AMMAN in a hybrid signing ceremony.

The BHCCPP-1 Power Plant is an impressive 450MW combined cycle power plant that will be built in Sumbawa Island, West Nusa Tenggara Province, Indonesia. The plant consists of two power blocks that will each be configured to 3-3-1 – each block with three units of GTGs, three units HRSGs and one unit of STG with bypass stacks to have a provision for simple cycle operation. Two GTs in first block are with dual fuel capability to facilitate diesel and LNG firing. The BHCCPP-1 Power Plant will utilise six units of Siemens SGT-800 (57MW ISO) gas turbines – the highest number of gas turbines undertaken in a single project to date in JEL's and PTJEL's history. Nonetheless, we are confident that our vast field of experience and expertise in power plant construction will be integral to the safe and timely execution of the BHCCPP-1 Power Plant. Which when built, will support AMMAN's existing mining, process and smelter operations and process plant expansion.

As of today, Notices to Proceed had been issued to JEL and PTJEL. Work is proceeding as planned with JEL making headway in the equipment and vendor selection and PTJEL is setting up site office and camps. While the complexity of the project may potentially impact project schedule and pose logistical difficulties, JEL and PTJEL will rise to the challenge! Come May 2025, we look forward to the successful completion of the BHCCPP-1 Power Plant!

Keppel Advanced Gas Turbine Cogeneration Combined Cycle Plant

On 30 August 2022, Keppel Energy Pte Ltd – a wholly owned subsidiary of Keppel Infrastructure, awarded a consortium comprising Jurong Engineering Limited (JEL) and Mitsubishi Power Asia Pacific Pte Ltd (MPW AP) an EPC contract for the Keppel Sakra Cogen (KSC) Plant to be built on Jurong Island. When completed, the KSC Plant will be capable of generating 600MW of electricity and running initially on natural gas as primary fuel but is also designed to cater for operation on gas with 30% hydrogen content – a cleaner energy source, making the KSC Plant Singapore's first ever hydrogen-ready power plant. We are proud to have a hand in bringing Singapore a step closer to her goal of net zero emissions by mid-century.

600MW
of Energy

JEL will take charge of KSC's balance of plant and the construction while MPW AP will supply major equipment including the well-proven state-of-the-art J-class gas turbine which will be manufactured in their facility back in Takasago, Japan. Executing construction projects in Singapore often poses unique challenges from a tight labour market to high costs and more. With our "Can do" spirit and good planning, we believe we can deliver this project safely and on time.

Today, the preliminary engineering, design, consultancy & permitting services including the Soil Investigation work are ongoing. These are instrumental and necessary processes that will lay the foundation for a smooth development of the project. Looking ahead, we anticipate receiving the Notice to Proceed early next year and the project is slated to commence commercial operation in 2026. Once achieved, this project will bolster our portfolio and serve as a testament to JEL's company vision of being the preferred global partner at the forefront of innovating for a sustainable future.

Photo: Keppel

(From left) Koichi Watanabe, Cindy Lim, Loh Chin Hua, Dr Tan See Leng, Ngiam Shih Chun, Osamu Ono.

Tambak Lorok Combined Cycle Power Plant Block 3 Project

The Tambak Lorok Combined Cycle Power Plant Block 3 project is located in Semarang City, Central Jawa Province, Indonesia, and has a net dependable capacity of 600MW to 850MW. The client, Marubeni Corporation, awarded JEL with the overall mechanical and electrical erection works including insulation and painting.

While the project has been far from easy and there have been logistical hiccups along the way, our site team always rose to the challenge. On 28 July 2022, our team successfully accomplished a major milestone on schedule with the completion of HRSG chemical cleaning.

Since the Tambak Lorok power plant utilizes the highest class of gas turbine produced by General Electric, stringent criteria pertaining to oil flushing had to be fulfilled. Nonetheless, our site team persisted and conducted this process with the utmost vigilance. Finally, after 45 days of working day and night, the oil flushing activities were completed, and the site team followed up with the final alignment of the Turboset single shaft.

Under the diligence and dedication of our safety supervisors and safety team, monthly safety campaigns to educate safe work practices among workers, the project

achieved 5 million safe man-hours without lost time injury as of 29 August 2022.

We look forward to the attainment of the next major milestone with the gas turbine first firing planned for December 2022!

Matarbari 2 x 600MW Ultra-Supercritical Coal Fired Power Project

Back in 2020, the Matarbari 2 x 600MW Ultra-Supercritical Coal Fired Power Project located in Bangladesh was awarded to a consortium comprising of Sumitomo Corporation, Toshiba Energy System & Solutions Corporation and IHI Corporation. In this project, JEL was awarded a contract on the Boiler M&E erection and piping installation work as a subcontractor to IHI.

As of 15 September 2022, our site team has successfully completed the Boiler Unit#1 Hydrostatic test which evaluated the integrity of pipelines and other pressure related infrastructures. We are proud that our team has managed to overcome the challenges despite stringent COVID-19 regulations. From the lack of skilled local workforce to equipment mobilization, our team strived hard and eventually accomplished this significant milestone 7 days ahead of the forecasted schedule.

Moving forward, we strive to complete the Unit #2 Boiler Hydrotest Base Line by February next year – one month ahead of schedule.

JEL Maintenance Updates

Baker Hughes Singapore Chemical Manufacturing Plant Facility

On 16 August 2022, a ceremony inaugurated by Baker Hughes CEO, Lorenzo Simonelli and Minister of Trade and Industry, Gan Kim Yong, was held for the completion of the Baker Hughes Singapore Chemical Manufacturing Plant Facility (BH SCMP). It was also attended by JEL MD, Mr Koichi Watanabe and JML CEO, Mr Nagappan Sathappan.

2 years ago, JML was awarded the overall construction works for the BH SCMP project by Sumitomo Chemical Engineering Singapore. JML's scope consisted of the design and build of non-process buildings, construction of civil and structure works, installation of equipment alongside piping, electrification and instrumentation works.

Over the years, we have encountered many challenges such as logistics issues, shortage in the supply of raw materials supplies and resource constraints due to the ongoing global COVID-19 pandemic and regional instability. Despite this, our project team were unfazed and demonstrated a great level of resilience. We are proud to have successfully delivered the project on time. In recognition of our efforts, we received an appreciation letter from SCES.

As a testament of Baker Hughes confidence in us, JML has been awarded another regular maintenance contract for the next 2 years. We are glad to continue our partnership with Baker Hughes!

Contributing to a Greener Future with JML Solar

JML has secured 2 design and build photovoltaic solar contracts with SembCorp that are to be developed at Micron Semiconductor, Singapore.

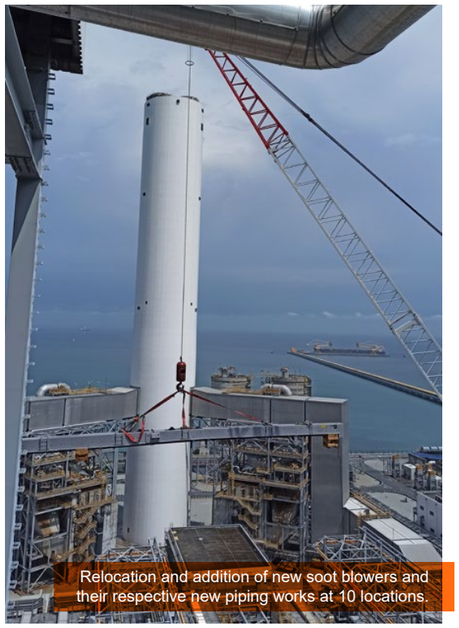
The first project awarded is for the development of a 2.02MWp PV Solar Plant at a sheltered carpark comprising of 605 lots. This will be JML's fifth car park project in Singapore built with JML's signature J-carport design. It will be equipped with the JFIRE SHIELD which in an unfortunate event of a fire, confers an hour of fire protection.

The second project acquired is for the design, supply and installation of BOS including the 22KV electrical Package for a 15.670MWp photovoltaic solar plant on a rooftop.

With these 2 projects under our belt, we will surpass our initial achievement of 100MWp, accomplishing 112MWp with 14 projects in Singapore and 1 in Malaysia. When completed, both projects will become one of the few major solar installations in Singapore – largest car park with solar and largest single roof with solar.

Despite starting this renewable journey only 3.5 years ago, our presence in Singapore's solar industry has since grown tremendously. Today, JML is undeniably a key player in the solar game as a PV System integrator with EPC capabilities and our track record of delivering high yield, low-cost O&M all in record time delivery for diverse types of utility solar farm – from rooftop, to ground mounted and to carports.

Boiler Improvement Works 2 x 1000MW Power Plant, Malaysia



Relocation and addition of new soot blowers and their respective new piping works at 10 locations.

Replacement of primary super heater area tubes consisting of 4,032 butt welded joints.

JML has successfully completed boiler improvement works for a 2 x 1000MW coal fired power plant located in Jimah East Power during a major outage. The project is managed by IHI Power Systems (Malaysia) Sdn Bhd.

JML scope of works involved the replacement of boiler pressure parts which required a 100% non-destructive testing and DOSH approval for the repair works. Throughout the outage, the JML team efficiently carried out the work tirelessly round the clock despite working within confined and limited spaces. Great work to the team who successfully completed the work safely and with quality within the agreed outage timeline of 26 days.

Demolition of an Existing Wastewater Treatment Plant

Sembcorp Industries (SCI) – SUT Division is a utility supplier to various chemical & petrochemical customers. Earlier this year, SUT seeks to demolish the existing Wastewater Treatment Plant located at 81 Sakra Road, Jurong Island, hence JML was awarded the contract for SWWT Plant Demolition works.

The scope of works included authority submission and approval, existing pipeline diversion and blinding, decommissioning of SPPG, PUB Power and Utilities, waste disposal and demolition of super structure, tanks, silo, pile removal, foundation and roads.

Slated to start from 1 June 2022 to 30 August 2022, the project timeline was tight with 3 months given. Nonetheless, our team successfully completed the demolition works within 2 months and handed the land over to SCI 1 month ahead of schedule to build the new Battery Energy Storage System in the now demolished area.

JML 5th Quality Day 2022

Falling on 10 November 2022, this is the 5th year JML has celebrated World Quality Day. A day devoted to raising awareness of the importance of quality and as a reminder of our commitment towards achieving quality.

The event commenced with a speech by our CEO/MD, Mr Nagappan, who emphasized the importance of quality and how it can differentiate us from our competitors. By encouraging quality-conscious employees, they will not only take pride in their work but also feel more recognized and confident in the quality of their work. As we prioritize quality, it translates to improved productivity and thereby on-time project delivery. With past projects testament to the quality, JML's reputation as a business partner would improve, thereby attaining an increase in business volume and profit. Hence it is paramount that we constantly think about how we can improve our processes and foster a culture of quality.

The event was also graced by staff from the Chartered Quality Institute who were invited to celebrate this day with us whereby the latter shared their annual Quality Day theme centered on

"Quality Conscience, doing the right thing".

The speech was followed by a quality talk led by Mr Ashok and attendees were given a tour around JML shop which displayed quality awareness posters around the shop. Next, all attendees undertook a Quality Pledge, vowing to exemplify quality in all aspects of their work. Finally, the event concluded with the Solar QC who discussed their goal of achieving zero punch in the future.

RMD Update

Last year, in October, the Risk Management Department (RMD) launched its first “Quality Improvement Campaign” and dedicated November as JEL’s month of quality. In November of 2021, RMD rolled out several initiatives. They created posters comprising of quality slogans and quality declarations to raise awareness within the JEL Group and project sites, hosted iJEL and initiated a Slogan Hunt where participants stood a chance to win a lucky draw.

RMD/QMS Virtual Meeting.

Mr Charlito S. Almarez in QMS polo shirt.

To reinforce the culture of producing quality work, RMD established a Quality Appreciation to reward projects with outstanding quality work. This year, RMD continues to ramp up their efforts in cultivating an environment of high-quality work among all staff. As part of 2022 Quality Improvement Campaign, the QA/QC engineer, QA/QC manager and project site that had the best quality achievements each received a customized polo shirt and a certificate to commemorate their contribution to assuring quality in their work. Through these awards, RMD hopes to recognize the staff’s effort and contribution in maintaining a high quality of work that is integral to customer satisfaction and continue encouraging work of excellent quality.

This year also witnessed the ASME Renewal Audit conducted over two days in mid-September. The ASME Audit was led by ASME Team Leader – an ASME Representative from USA, together with ABS Authorize Inspector Supervisor and ABS Authorize Inspector. The result of the audit received was a satisfactory rating – same as the previous audit back in 2019.

As always, we will continue to strive for reliable, superior, comprehensive, and quality work!

Innovating JEL

In this issue, we are featuring the various novel inventions by JEL Group which have truly embodied JEL’s innovative spirit. Moving forward, we hope to see more innovations that can bolster JEL’s competitive edge, improve our productivity and safety.

Construction Center

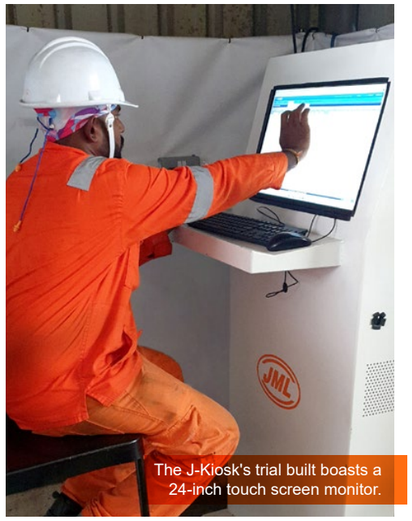
Welders are one of the integral components to achieving the safe and successful execution of a project fulfilled with exceptional quality. To uphold a certain standard of welding in projects, it necessitates a welder qualification test to filter out the best welders. While the test has been carried out for years, the Portable Welder Test Cabin (PWTC) initiated and designed by the Construction Center is relatively new. The PWTC was repurposed and modified from a 40ft container to accommodate 6 welding bays and is equipped with essentials like a ventilation fan and portable lights.

Prior to the ingenious invention of the PWTC, testing was more often than not disorganized, unsafe, and set up over whichever space was available. Compared to today, the highly compact PWTC creates a safer testing environment, whereby the welding machines are neatly organized on racks and the welding cables run along the wall. This greatly minimizes the risk of accidents resulting from tripping and electrocution. The PWTC has also significantly reduced the cost and time of preparation with its ability to be readily mobilized and transported to other project sites. With the PWTC, testing is no longer impacted by rainy conditions as the cabin is purposefully elevated from the ground to prevent any water ingress. The PWTC not only benefits us in terms of cost, safety and productivity, but also boosts clients’ confidence in us with the organized testing arrangement.

While the PWTC has primarily been used for welder qualification tests, it has since evolved to hosts welder skill improvement trainings. First implemented in 2017, the PWTC has been utilized in 3 projects with the most recent being the Sarawak Methonol Project this year.

Overview of the PWTC.

Where welders prepare/ are tested in the respective booths.



The J-Kiosk's trial built boasts a 24-inch touch screen monitor.

JEL Maintenance Pte Ltd (JML)

As part of JML’s initiative to increase productivity and efficiency on the day-to-day operations, they have embarked on exciting innovative initiatives such as the J-Kiosk and QR code for spools and tools tracking.

The J-Kiosk will be an interactive kiosk containing essential project information accessible to all workers, supervisors and the QC team. From drawings to welding reports, they are easily accessible in real time! With the potential of being integrated with other IoT devices, the impact of the J-Kiosk on JML’s operations will be profound. The J-Kiosk not only serves to boost clients’ confidence but also to boost workers’ morale. Currently, the team is finalizing testing and design concepts. There are plans to hold a trial run by this year and hopes of implementing it in Singapore’s fabrication workshop by 2023.

Other than the J-Kiosk, JML aims to enhance their tool and spool tracking system with QR codes which would confer detailed tracking and monitoring. The tracking system is integrated with Cutech software that allows pipe spool progress management. With this, every time a worker scans the QR code linked to the tool/spool, the respective worker’s name, location, date and time, and respective tool/spool ID are recorded. The tool/spool movement history is also easily accessible, and a worker can locate any tool/spool conveniently via their mobile phones and when implemented, the J-Kiosk.

As of today, JML has finalized the tool and spool tracking system and has deployed it to the Sanofi project as a pilot test.

We look forward to seeing the J-Kiosk and QR tool/spool tracking system come alive!

Discovery Workshop:

Identifying Areas for Innovation within JEL

On 26 August, JEL held a 3-hour workshop introduced by IMDA with the intention of identifying emerging priorities for innovation within JEL. A total of 9 staff from various departments participated in the workshop. With the help of ThinkPlace as the workshop’s core facilitator, our staff were split into teams. The workshop kickstarted with each team engaged in a charged discussion to determine emerging opportunities and threats affecting JEL.

Following that, as part of an ideation exercise, our staff pinned down potential ideas for business improvement with “What if?” probing questions. Through a dynamic colloquy, our staff finally narrowed down to 3 key goals centered on how they wish to improve JEL’s operations. They are towards zero safety violations, enhanced project monitoring and more efficient procurement. Once the 3 goals were agreed upon, the facilitator acquainted our staff with the new technological trends within the energy, construction and engineering service sectors.

Zero Safety Violations | Enhanced Project Monitoring | More Efficient Procurement

The workshop concluded with an exercise in which our staff further fine-tuned and categorized the goals into short term goals aka “quick wins” and long-term goals which would ultimately support innovation, business process improvement and growth within JEL. Through this productive workshop, we have established JEL’s core priorities, and it is certainly an encouraging step towards the development of a more innovative JEL. We look forward to realizing the implementation of various innovative tools paving the way for a safe and sustainable JEL!

Group Finance Meeting

It has been 3 years since we last conducted our Group Finance Meeting physically. This year's meeting addressed the idea of transformation within JEL aimed at buttressing our financial capability and the utilization of IoT and Innovation to advance profits and create a safer work environment.

During the meeting, our finance team reiterated the need to constantly improve and strengthen our current financial system and build a more robust 3Y Budget Plan. To withstand volatile and uncertain market conditions, we cannot undermine the importance of CF reporting, foreign currency hedging and credit control. Alongside, job costing, proper cost code, timely budget revision and closure of projects were discussed. It was further highlighted that to accurately determine project margins at the end of each financial year, it is critical to review the estimated cost of completion on projects.

As per previous years, this year's meeting was attended by our Group auditors, Ernst & Young. They updated the attendees on the Financial Reporting Standards which will take effect from the current financial year. The meeting was also joined by colleagues from the Legal, Corporate Secretarial, IT and Risk Management departments who shared their insights on various issues that have financial implications, corporate governance, internet software and security. Our colleagues from JML and JEL Bangladesh were also invited to discuss the challenges ahead in the maintenance business and the potential impacts on projects with the upcoming Bangladesh tax changes.

As the meeting progressed, our finance department presented their IoT initiative which they hope to roll out to all subsidiaries before the end of this financial year. By developing an application to digitalize the fixed assets platform, approval processes will become paperless aka digitalized and time efficient. Furthermore, all records will be integrated and accessible on the digital database making it easier to verify whenever required.

Before the annual meeting concluded, our finance team were invited to a group activity where they completed a Neris's 16 Personality Test. The intent was for the team members to gain a better understanding of themselves on what really drives, inspires and worries different personality types, helping them to build more meaningful relationships.

Finally, we would like to extend our thanks to all attendees who made this meeting a success. We look forward to next year when we can once again share and learn from each other.

NTU Job-in Fair

We are thrilled to have the opportunity to participate in the 2022 Nanyang Technological University (NTU) Job-In Fair. The Job-In Fair offers employers like us to share our brand and interact with undergraduates and postgraduates across all years and disciplines. Previously due to the COVID-19 pandemic, we participated in virtual fairs and interacted with the students via a virtual platform.

This year, the long-awaited physical career fairs have resumed and is a welcoming sign of society's transition to normalcy. On the days leading up to the physical fair held on 31 August 2022, the HR department bustled about preparing brochures, banner and many more.

When the day arrived, with slight trepidation but mostly excitement, we welcomed the students. That day, the entire team were on their feet interacting with the students. Despite our weary bodies, we felt rewarded. Certainly, nothing beats having students visit our booth and us physically conversing with them. We have met many inspiring students, and we hope they had a good time just as we did. Who knows, one day, they may be part of our JEL family!

JEL Wellness Exchange

The mental and physical health of employees primarily corelates to the environment of a workplace. Hence, it is pivotal to prioritize the health and wellness of our employees in a workplace to safeguard JEL's business growth, stability, strength and sustainability.

By focusing on improving and raising awareness on the importance of employees' wellness, benefits include the betterment of health, quality of life, mental wellbeing, work performance and ultimately foster a culture of wellness in a workplace. With this in mind, our HR Department launched the "JEL Wellness Exchange" on our HR portal. It is a one-stop platform for staff to easily access resources and programs that benefit their well-being.

The JEL Wellness Exchange features wellness programs that employees can join; articles, brochures and short videos discussing a wide range of topics on boosting wellbeing. The page is updated monthly, and a recent article shared tips on improving one's sleep quality. Aside from that, the page also features the "Energy Charge Communication", a monthly digest disseminated by IHI Energy Division focused on health management.

Through this initiative, we hope to inspire employees to take charge of their wellbeing and promote a healthier and more productive work environment. In the long run, we hope this effort bear fruits in terms of reduced health care costs, increased productivity, and increased employee retention – lending further credibility as to how personal health can influence job satisfaction.

A Year of Prosperity!

Back in August, we scored 2 new projects with a combined value of over SGD 1 billion – unprecedented in JEL history. One being an EPC contract for a 600MW advanced gas turbine cogeneration combined cycle plant in Singapore – the owner Keppel, and another equipment supply agreement and an engineering procurement and construction agreement for the 450MW Batu Hijau Combined Cycle Power Plant.

To celebrate this momentous occasion, our SRC committee organized a dinner party for all employees on 30 September. Held at Summer Garden, SAFRA Mt. Faber, the night started off with short speeches by our MD, Mr Koichi Watanabe and our COO, Mr Koh Kew Sek who extended their congratulations and appreciation to all staff who have worked tirelessly to secure the contracts and shared their hopes and aspirations for JEL moving forward.

The night continued with an exquisite lineup of a 9-course meal serving dishes from flavorful herbal roasted duck to fresh XO scallop and prawn. The dishes were served one after another leaving everyone well-satiated.

Meanwhile, the karaoke contest commenced with 7 contestants who sang and even danced their hearts out to the likes of ABBA, Air Supply and more. When the karaoke contest ended, we were surprised with spontaneous performances put on by other staff who dazzled us with their delightful vocals. After the entertaining performance, the contestants were judged by Mr Watanabe. With the votes determined, the top 3 contestants were awarded while the rest were gifted consolation prizes.

As the night drew to a close, everyone raised their glasses as we were led through three resounding cheers of encouragement for the bright future of JEL!

Pre-COVID Events are Back!

This year, as COVID-19 restrictions eased, our Social Recreational Committee (SRC) finally resumed events dedicated to bonding JEL staff. From a trip to Pulau Ubin to the reinstated annual bowling tournament, JEL SRC is back with a vengeance of fun!

Basic Zumba Lesson

May to September 2022

Durian Feast

23 June 2022

Our colleagues enjoying Mao Shan Wang!

Pulau Ubin Adventure

25 June 2022

Back in June, SRC organized a trip to Pulau Ubin where we were joined by 88 participants! For some colleagues, it was their first time going there. With excitement, we boarded the ferry at Changi Ferry Terminal and reached Pulau Ubin where the sight of nature intersecting with sea is a breath of fresh air. There, we cycled and trekked along the beautiful island before having crabs for lunch! All of us had a great time exploring Palau Ubin and we can't wait for the next trip! Perhaps next on the list will be Lazarus Island?

Mid-Week Coffee Appreciation

29 June 2022

Karaoke Night

22 July 2022

For many of us, it has been 2 long years since we last sang at a karaoke. From the eclectic room designs to the trippy walk down the hallway, K.STAR at Plaza Singapura teleported us to another dimension filled with endless singing. From the soulful, melancholic Chinese songs reminiscent of the 1990s and early 2000s to upbeat pop songs, no ears were spared.

Everyone belted our hearts out to our favourite songs. The night concluded in high spirits (and some sore throat, but well worth it). We are already looking forward to the next karaoke session!

7th Month Prayer

18 August 2022

Birthday Walks

22 August and 21 October 2022

Starting August, our bi-monthly birthday walks have resumed. The birthday walk was first introduced to promote a healthier lifestyle among employees, encourage socialization between the employees and for MD to get to know each employee better. After the walk, employees are free to enjoy the rest of their day off!

July & August birthday colleagues.

September & October birthday colleagues.

Simple Stretching Exercise

September to October 2022

Bowling Tournament 2022

23 September 2022

Bowlers rejoice! Our annual bowling tournament is back!

A week before the actual tournament happening on 23 September, participants were welcomed to a practice session at Keat Hong Community Club. After nearly 2 years of hiatus, most of our bowling skills have turned rusty. This practice session was a perfect opportunity to hone our bowling skills and prepare for the tournament.

In the blink of an eye, the day of the tournament has arrived! Before the tournament kicked off, everyone enjoyed a buffet in anticipation for the night ahead. With our stomachs full, the competition commenced.

A total of 48 participants including our CEO, Mr Watanabe and his wife, Mrs Watanabe who we were happy to see, joined that night. Split into groups of 4, there were 12 competing teams and every team played with enthusiasm. Cheers of encouragement for their teammates and even for those on the opposing teams resonated through the night.

After 3 rounds of intense bowling, the scores have finally been tabulated and the long-awaited revelation of the winners was announced. The prize giving ceremony began with Mr Watanabe and Mrs Watanabe who awarded the top 3 teams and top female and male individuals. Our General Manager for the Human Resource and Admin Division, Mr Alan Phang, then announced a surprise consolation gift for everyone! Before the entertaining night bow(l)ed out, everyone was treated to delicious cupcakes!

Strengthening and Stretch Exercises for Good Posture

10 October 2022

Lighting Up Our Day with Deepavali Celebrations

4 November 2022

You know Deepavali has rolled around when you are greeted with a rangoli by the entrance of JEL. The day before the celebration, 9 of our colleagues worked together to create 2 beautiful rangoli after work — one at the entrance and another at the front of the tentage.

To kickstart the Deepavali celebration, our MD, Mr Watanabe and his wife, Mrs Watanabe, greeted the occasion dressed in traditional Indian costumes. They proceeded to light up the Kuthu Vilakku to signify the start of the celebration.

This was followed shortly with a photo session with other colleagues who were also decked out in beautiful costumes that we almost did not recognize some of them!

Basking in the festivity, everyone eagerly queued for the buffet which presented dishes from fragrant briyani to addictively sambal tofu and many more. There was certainly something for everyone!

Thank you to Shanti, Karthika, Ravi, Suganthi, Abdul, Annadurai, Vinoth, Sivashanmugam, and Subramaniam for your outstanding effort!

First Overseas Site Visit!

This year, as borders opened, our budding design engineers finally had the chance to visit JEL overseas sites for the first time! Read on to hear more about their experience.

> I was inspired by their tenacity when it comes to tackling issues and their meticulousness in planning everything down to the very minute details.
>
> – Rajendran Karthika

Hong Wei Xun
Piping Department

Back in July, I visited the Ratch Cogeneration Expansion Project located in Pathum Thani, Thailand. Over the period of 4 days, we went about inspecting, checking and resolving any issues related to the site piping. This was my first site visit and it turned out to be illuminating. After witnessing the site conditions first-hand, I came to be more aware of the difficulties faced by the site workers. Presented with rugged site conditions, the hassle of flipping through many pages in search of information, all while performing construction work, would be inconvenient. Hence, it would be much more beneficial for site workers if the designer prepared concise drawings which only showcase necessary information in an organized manner. From this experience, I now understand the immediate need of improving the clarity of my drawings so work at site can proceed efficiently.

After experiencing work at site, albeit for a brief 4 days, I came to appreciate our site workers more. While I have always known that sitework is not easy, it has not truly hit me until I was there. At site, work can get very stressful and being far from home is certainly not easy, especially without the immediate support of family or friends. This was vastly different from my life in Singapore where I got to see my family and friends whenever I wish. Hence, to unwind, site workers often enjoy their time after work by having a good meal or drinks with their colleagues.

Thank you to all site workers for their utmost effort!

With Mr Sivakumar from SMD.

Rajendran Karthika
Electrical & Instrument Department

In August 2022, the long-awaited opportunity to visit site, which have been previously postponed due to the COVID-19 pandemic was finally realized. With excitement, I arrived at Rayong, Thailand and saw the Glow Phase 2 Replacement Cogeneration Plant (GSPPR).

As it was my first visit, I was not very sure what to expect. However, after years of only seeing and learning the theories behind the control room, instrument, equipment and more, to stand in the very plant was a memorable experience.

Being able to witness the scale of the site operations, the amount of coordination and teamwork that goes behind ensuring the smoothness of day-to-day operations was truly impressive. At site, I had the opportunity to gain a deeper understanding of the intricacies that goes towards the design of a plant. I also had the fortune to observe ongoing commissioning work and was introduced to the site team, owner's engineers, the workers. Speaking to the site personnel, I learnt of their responsibilities and struggles. I was inspired by their tenacity when it comes to tackling issues and their meticulousness in planning everything down to the very minute details.

One of my biggest takeaways from this experience is that no matter how small your task may seem, by completing it well, it ensures the success of the entire project.

From this visit, I have gained a new outlook towards the way I work and grown a newfound respect for our site personnel!

Dinner with site colleagues.

Emiley Tan Puay Jun
Electrical & Instrument Department

After 2 years in JEL, I finally had the opportunity to visit our job sites. Being my first overseas trip since the emergence of the COVID-19 pandemic, I was nervous yet excited to finally see the job sites in person! In May, over the course of 3 days, I visited 4 job sites located in Rayong, Thailand.

At the Glow SPP2 Replacement Project job site, the main purpose of this visit was to survey the tie-in points of the existing power plant with the Owner & Owner's Engineers. Upon reaching the site of the Glow Phase 2 Replacement Cogeneration Plant, we were tasked to survey, take note and resolve issues raised by the site engineers. For the rest of the trip, I accompanied some of my senior engineers to visit the sites for BCC2 Combined Cycle Power Plant and Sahacogen SPP Renewal Plant.

Having only seen a power plant on paper, seeing them up-close for the first time was mesmerizing. It was a positively stirring moment when I saw the very equipment I helped designed in real life. Overall, my first work site visit was an eye-opening experience where I was able to appreciate the different power plants and had the chance to see my contribution come to live!

Wonderful seeing the GSPPR site for the first time.

Inauguration of Newly Revamped SMD Office

On 15 September 2022, SMD welcomed JEL MD, Mr Koichi Watanabe alongside SMD MD, Mr TJ Khor to the highly anticipated inauguration of their newly renovated office located in Chennai, India. After the ribbon cutting ceremony, Mr Watanabe was given a tour and introduced to all employees.

Starting from humble beginnings, SMD office was first established in 2013 with just 15 workstations. Today, it has evolved to be an integral part of JEL's EPC centre and is now operating as a full-fledged Design Office with 45 staff and boasts 5 different departments – piping, electrical, instrument & control, civil & structure, and process & equipment, under the guidance of Mr Wong Chow Yee.

During their visit, Mr Watanabe and Mr Khor were invited to a staff party held at The Rain Tree Hotel where they first addressed the staff. In Mr Khor's speech, he expressed his appreciation for SMD's outstanding performance throughout the years. Mr Watanabe highlighted JEL's recent achievements of securing major EPC projects and stressed the importance of innovating new, cost-saving technologies to continue prospering in a competitive business environment. He further encouraged all staff to progress with the same commitment and dedication as we advance further as a company.

The night of festivities kickstarted with Mr Watanabe and Mr Khor participating with the staff in various games from Balloon Caterpillar to Stack the Cup where amazing prizes were at stake. The Sure Win Lucky Draw fetched cash prizes to all staff. As the party got livelier, Mr Watanabe delighted everyone with his guitar rendition of his favourite Beatles song and surprised everyone with his ability to play a Tamil song despite hearing it for the first time.

To bid the night farewell, everyone danced to the beats of Kollywood whereby no one was a match for Mr Watanabe's energy and impressive dance moves! It was a truly memorable celebration.

Continuous Learning

In this issue, we interviewed **Tan Fun Shen** and **Vuriti Kiran Kumar** who shared their inspiring journey of continuous learning under the JEL Study Award.

Tan Fun Shen
Project Engineer
EPC Management Department

After working in JEL for 10 years, I figured it was high time to go back to school and broaden my horizon so that I can further enhance my work competency. As a project engineer under the EPC Management Unit, my day-to-day task entails assisting my project manager on the execution of current projects and tendering for new projects. After much deliberation, I decided to do a law major as it would give me an edge when it comes to understanding contract reviews and facilitating discussions between us and the respective clients and contractors. Hence, I decided to pursue a Bachelor of Law (with honors) with Birmingham City University – a partner university of Kaplan, under the JEL Study Award which was awarded to me on 7 December 2021.

Assimilating to the world of studying after 10 years proved to be an initial struggle where I had to keep up with intensive readings and revise my work constantly, while still giving my 100% at work. Nonetheless, I persisted and learned to manage my time more efficiently. I would review my priorities and organize my calendar for the week ahead according to the tasks and their respective deadlines. Doing so allows me to anticipate my week ahead and prevents me from becoming too overwhelmed by work and school. To reenergize, I would also try to dedicate a day each week to spend time with my family. I will also hit the gym five times a week to destress.

Of course, there are days when I feel overwhelmed and doubt my decision in pursuing this degree. When this happens, my senior colleagues would offer me advice that realign my views and clear any doubts. After nearly a year into studying, with the ease of COVID-19 restrictions, I look forward to the resumption of physical classes and interacting with my course mates for the first time. Lastly, I would like to express my thanks to my bosses, Ms Zaihana and Mr Wong, who were especially supportive of my decision to further my studies.

Tan Fun Shen participated in CDP 1/2016 Module 3 in Japan.

Vuriti Kiran Kumar
Associate Technical Specialist (Electrical)
Electrical & Instrument Department

Back in 2021, I took the plunge and decided to embark on my master's degree with the help of the JEL Study Award. While I already had a master in power system control, I wanted to gain exposure in the principles of engineering business management. After much contemplation, I decided to pursue my Master of Science in Engineering Business Management from Coventry University as I found the course curriculum to be closely aligned with my interest. The courses I studied offered me insights related to engineering business.

> "I finally had a clearer understanding regarding the concepts of "**lean**" and "**agile**" – terms often mentioned by our COO over the years.
> – Vuriti Kiran Kumar

As I started my master's degree during the COVID-19 pandemic, most of the classes were conducted online. When school started, it coincided with the peak of my projects. This resulted in a high influx of work and school, whereby there were days I had to spend almost 12 to 15 hours in front of the laptop. Luckily, I was blessed with unwavering support from my family, line manager and teammates. The past year has been undeniably challenging and at times very stressful. To cope, I would take one-hour mental breaks to either go for a walk or bond with my kid. Such activities helped me to de-stress, refresh my mind and I find myself more productive after.

Through the course, I finally had a clearer understanding regarding the concepts of "lean" and "agile" – terms often mentioned by our COO over the years. I even wrote my thesis around these concepts where I argued for the implementation of lean and agile principles in EPC business to achieve operational efficiency. Taking this course has truly opened my eyes to the significance and interconnectivity between our company's vision, mission, and core values. Furthermore, the course of my study has refined my ability to approach a matter critically and I can certainly observe this at work too. For instance, I became more confident in tackling issues raised by the owner's engineer in the Glow Energy Repowering Project.

Today, I have completed my course and I am proud to share that I have achieved a Master of Science with Merit in Engineering Business Management. Thank you JEL for allowing me to pursue my master's degree and I hope JEL will continue to be lean and agile!

Healthy Living

Did you know we have a yogi among us? Meet **Karunakaramurthy Saravanan**, as he shares his yoga journey!

At the age of 46, after years of not exercising and work-related stress, I was hospitalized and diagnosed with hypertension. This incident served as a wakeup call to start caring better for myself. Since then, I was determined to manage my weight and mental health. Hence, I started to engage in exercises such as walking and playing table tennis. While these activities have helped with my weight loss to a certain extent, I did not find myself benefitting from this mentally until I discovered yoga.

Back in 2006, I was first introduced to the world of yoga while on a vacation to India. There, I met a yoga master who demonstrated some fundamental yoga poses and meditation. After a session with him, I felt an emotional release that I have never experienced from other exercises.

Enamoured by the therapeutic benefits, I started pursuing yoga regularly. To my amazement, my hypertension gradually came under control, and I felt stronger. I started sharing the benefits of yoga with my close friends and even taught them over the weekends! To cultivate my knowledge on yoga, I decided to pursue a certificate under the guidance of a senior yoga practitioner from Saudi Arabia. After a year of learning and practicing, I completed my studies and officially became a qualified yoga master.

As someone who has benefited greatly from yoga, I wanted to share these benefits with others. Thus, I decided to sign up for a Standard Chartered Half Marathon in 2013 which I completed successfully. To challenge myself further, I went on to participate in a full marathon for 3 consecutive years – from 2014 to 2016. To prepare for the marathon, I did not partake in any special training or diet, I simply practiced yoga.

Today, I feel healthier both physically and emotionally compared to 2006.

To anyone who is interested in yoga, just start practicing! With yoga, the physical benefits are undeniable. Better yet, you learn to appreciate the present, become more grounded, and attune to your body, mind, and soul.

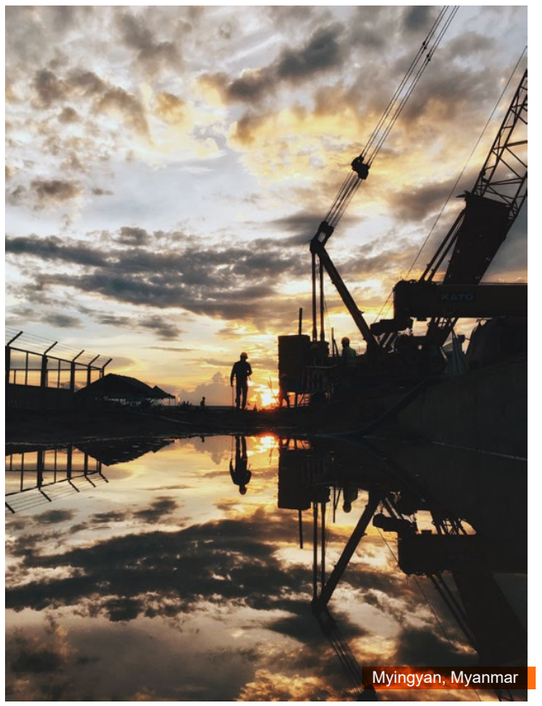
Karunakaramurthy Saravanan
Senior Manger
EPC Management Department

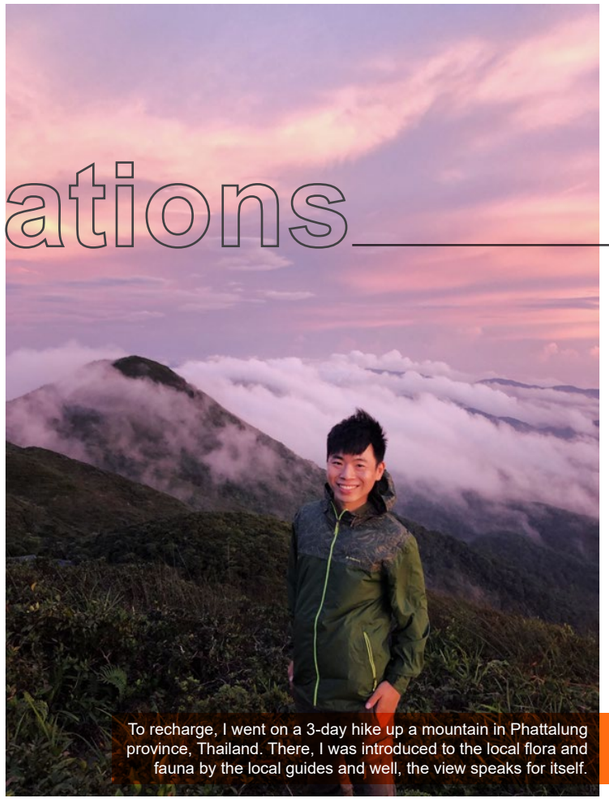
Insider Conversations

In this Insider, we interviewed our site colleague, **Zheng Juncen**, who ventured out of Singapore, otherwise also known as the little red dot, in 2017 to work as an overseas site engineer. Let us hear his story!

My mum's dumplings.

First project in Myingyan, Myanmar.


Myingyan, Myanmar


To recharge, I went on a 3-day hike up a mountain in Phattalung province, Thailand. There, I was introduced to the local flora and fauna by the local guides and well, the view speaks for itself.

Myanmar Market

Meal with an American Technical Field Advisor I met during the NRER project.

When and why did you first join JEL? What is your current role in JEL?

I first joined JEL in 2017 as a site engineer.

It was in my graduating year at Nanyang Technological University that I chanced upon JEL during a career fair. After speaking to some of the senior JEL colleagues, I was well sold on the prospect of the job. Hence, right after graduating from NTU, I decided to apply.

Today, I am working as a chief mechanical engineer at the Nexif Ratch Energy Rayong (NRER) project and am also involved in the IRPC CHP3 project.

What prompted you to work overseas?

I have always been fond of travelling whereby I love immersing myself in other cultures, learning their languages and interacting with the locals. Hence, when presented with the opportunity to work overseas, I grabbed it. Afterall, what better way to explore the world then to travel and work at the same time?

Which was your most memorable overseas project and why?

To date, my most memorable project was my first project in Myingyan, Myanmar.

Leaving the comfort of my home in Singapore and venturing into Myanmar proved to be not all green and rosy.

I still recall vividly the first time I saw rows of houses made from bamboo that lined the dirt roads, without access to the basic necessities which we take for granted every day in Singapore. This was a jarring experience.

Acclimatizing to site was also difficult initially in terms of food, different work culture and communication. Thankfully, the strong support and guidance from my senior colleagues tided me through these tough periods of adjustment.

What is the typical daily routine of an overseas site engineer?

We typically start our day at 7.30AM at the work site with a toolbox meeting to delegate and follow up on any jobsite progress.

As the day progresses, we will normally go on 4 to 5 routine checks around site and plan for upcoming site activities.

Additionally, we will follow up with vendors for deliveries, communicate with engineering teams on any technical clarifications and attend internal meetings.

Most days, we will typically clock off at 6.30PM. Unless it is during peak periods, when project schedules are tighter, then we usually work until 8 – 9pm.

What has been the biggest difference / adjustment point working overseas compared to working in Singapore?

The most striking difference would be the palpable loss of physical interaction with my family and friends back in Singapore whereby working overseas meant that I could not meet them regularly. However, I am truly thankful to be living in this technological age whereby I can contact my family and friends whenever I miss them. Other than that, becoming friends with my site colleagues has been a silver lining.

Moreover, due to the nature of my work, I have to interact a fair bit with the local team, vendor and subcontractor. This aspect proved to be an initial struggle as it took me some time to adapt to the local work culture and language.

What are three things you wish you knew before working as an overseas site engineer?

Well, learning the local language – or at least the basics, would have been a good way to prepare myself. To add, having a clearer understanding of the job expectations and basic construction concepts of power plants would have made my time assimilating into this new lifestyle easier.

What are some key takeaways from your years of working as an overseas site engineer?

One of the biggest takeaways is the importance of the local culture and language. By attempting to understand their culture and picking up their language, it has greatly benefited my work.

Apart from that, adaptability is an indispensable trait. Due to the dynamic nature of this job, being highly adaptive to the local conditions with the versatility to grasp and handle any situation is advantageous. The ability to be both an independent worker and team player is paramount to anyone who wishes to become a site engineer.

What is some advice you would like to share with our colleagues who wish to work at site?

Be open to new cultures and learn to embrace uncertainties.

Just as the JEL tagline goes, Rise To The Challenge. It can be considered a success if you treat any obstacles you face as learning points regardless of the outcome.

What is your aspiration and dream? What do you wish to accomplish at JEL?

In time, I hope to become a competent project manager with seasoned foresight, knowledgeable insight and the adroitness to handle any tough situations.

How do you typically unwind after work?

Together with my colleagues, we would explore the vicinity and lookout for nice restaurants and coffee. Currently, the beach along the coast of Rayong is one of our favourite spots in the country where we get to relish fresh seafood while listening to live music!

As a photography enthusiast, I also enjoy capturing moments – from nature to cafes and to friends. Thailand has been kind to me thus far as there are many beautiful sights to photograph.

Finally, what is one thing you miss most from Singapore?

Definitely my mum's food. I am truly grateful for my mum who will free up her schedule whenever I am back so we can catch up and cook meals together. One of my favourite things I look forward to is making dumplings / jiaozi with my mum. I can't wait to be back!

We Care @ JEL

Green National Day Walk

9 August 2022

In celebration of this National Day, we organized a 'green' walk that lasted approximately 3 hours. Departing from the trail encompassed by nature, it first brought us to the recently revamped Old Bukit Timah Railway Station which boasts a quaint café nearby. As the trail progressed, we trekked past Rifle Range Road where we came close and personal to some monkeys, then past the BKE Highway. Finally, we arrived at MacRitchie Reservoir where everyone enjoyed a short photo session to celebrate reaching the end of the hike. While enjoying the picturesque views, we picked up some litter along the way. We are proud to do our part for Singapore!

Happy 57th Birthday Singapore!

Meals-on-Wheels

An initiative that first started in 2020 in collaboration with Touch Home Care to deliver meals to homebound elderly residing in Jurong and nearby neighbourhoods, has since evolved into a trimonthly initiative. To date we have completed 11 runs and successfully delivered over 720 meals to the beneficiaries residing in Jurong, Bukit Batok, Bukit Panjang and Choa Chu Kang.

In 2022 alone, we have organized 3 Meals-on-Wheels with the most recent being back in September. It was great welcoming back familiar faces and introducing new ones to this meaningful initiative.

Together, the volunteers first assembled at Touch Homecare where they are briefed on the protocols and safety measures. Split into teams of 2, each team would pack the meals according to their sheet list before departing for delivery.

Meals are often hung by the door or window. Every so often, volunteers will encounter an elderly person who is eager to chat. These chats often leave smiles on both the faces of our volunteers and the owner.

We look forward to seeing more of our employees join us on our next run!

30 September 2022

25 March 2022

25 March 2022

25 March 2022

25 March 2022

24 June 2022

My Hopes! My Aspirations! My JEL!

Meet some of our new colleagues who just joined us this year! Read more to find out their dreams and their goals moving forward!

Tan Hui Xin
Corporate Communications Executive
Corporate Communications Section

Growing up, I have always gravitated towards writing as a way of expressing myself. Hence, it is unsurprising that I took up a job which entails lots of writing – granted we are more often typing than writing now. In my role, other than writing, I am also involved in marketing, which I deeply enjoy due to the dynamic nature of it. Most of all, I enjoy the freedom to express my creativity which my work offers.

I look forward to becoming a more well-rounded individual with stronger communication skills under the guidance and counsel of my fellow colleagues and management, who have all been so kind to advise me whenever I am stumped. JEL is certainly not a place that spoon feeds you but rather grooms you to become better. I am proud to be part of the JEL Family!

Ng Bao Yong
Design Engineer
Civil & Structure Department

After the completion of my undergraduate degree in Civil Engineering, I became specifically interested in how the theories I've learned in school are applied in the real world. As a sustainability advocate, I'm intrigued by the transition of oil to cleaner power sources such as natural gas and hydrogen and want to understand deeper about power plants' foundation and structure designs, as well as their respective components and processes.

In JEL, I hope to evolve my skills in a challenging environment and work within a team. I also hope to gain valuable experience and increase my technical knowledge under the patience and guidance of my senior engineers in the company. I am thrilled to work in a professional environment that values my work.

Suganthi Jayamoorthi
Human Resource Executive
Human Resources Department

Since I was young, I have always been inquisitive and curious about people. I truly enjoy being among people and am constantly eager to know more about their experiences and quirks. Hence choosing the role of Human Resource as my profession was certainly the most fitting decision I have ever made.

While I only joined a couple of months ago, JEL has quickly grown on me. Even though I was overwhelmed by the steep learning curve, my colleagues remained supportive and guided me whenever I was in doubt. In my short amount of time here, my boss has constantly encouraged me to take on new responsibilities and tasks. Despite the challenges, I welcome them as I can not only learn from them, but it makes work exciting. I look forward to growing with JEL every day and becoming a better Human Resource Executive!

Insider Picks

"Music is the universal language of mankind." — Henry Wadsworth Longfellow. In this issue, we asked our colleagues to share their favourite songs.

My Love
Westlife

My love
I try to read, I go to work
I'm laughing with my friends
But I can't stop to keep myself from thinking
Oh no
I wonder how, I wonder why
I wonder where they are
The days we had, the song we sang together
Oh, yeah

And oh, my love
I'm holding on forever
Reaching for the love that seem so far
So, I say a little prayer

That's What Friends Are For
Dionne Warwick & Friends

That's what friends are for
In good times and bad times
I'll be on your side forever more
That's what friends are for

Keep smiling, keep shining
Knowing you can always count on me, for sure
That's what friends are for
For good times and bad times
I'll be on your side forever more
That's what friends are for

Keep smiling, keep shining
Knowing you can always count on me, for sure

It's Not Goodbye
Laura Pausini

To put my broken heart together again

Until the day I let you go
Until we say our next hello
It's not good-bye
'Til I see you again
I'll be right here remembering when

And if time is on our side
There'll be no tears to cry
On down the road
There is one thing I can't deny
It's not good-bye

Nyein Nyein Ei Carrie
Executive
JEL Maintenance Pte Ltd

The song lyrics are meaningful, warm, and hopeful. It illustrates how one is deeply in love and cannot be together but hopes to meet his love once again.

Hearing this song, I can feel the palpable longing for his lover and the desire to keep holding on to their love although they are apart. No matter how he keeps himself occupied, he can't eliminate his grief and the emptiness he feels in his daily life. This song reminds me of how we have all perhaps encountered similar instances like this song.

Lastly, the singers are cute and handsome!

#MyLove #💕 #ToSeeYouOnceAgain

Ronnie Lim
Senior Construction Specialist
Jurong Engineering Limited

This is one of my all-time favourite songs covered by Dionne Warwick & Friends in 1985. The legendary singers in the group are Dionne Warwick, Elton John, Gladys Knight, and Stevie Wonder. It is indeed a masterpiece – timeless and mesmerising.

I prefer this cover to the original as I find it to be a more powerful rendition with perfect harmony and musical chemistry. I like the chorus the most as it was sung brilliantly by each singer in their unique vocal styles yet harmonised perfectly with the melody. Through this chorus, I can feel their genuine friendship which made this song even more touching.

Hearing this song brings back many fond and precious memories of the moments I shared with my friends and colleagues filled with joy, laughter, and smiles!

#KeepSmiling😊 #KeepShining⭐

Norahasah Bte Kantan
Senior Lead Officer
Jurong Engineering Limited

I dedicate this song to my beloved belated mum who I love so much. While it was difficult to let her go, it has been my honour to have her as my mum. It has been 11 months since my mum left me but I still miss her deeply and pray for her happiness in her next life.

This song soothes me and brings me comfort for it reminds me of an eternal love. Just like the love I have for my mum, our relationship does not end with her passing. For in our next life, I will still love her.

#💗 #ItsNotGoodBye #TillSeeYouAgain

Editorial Notes

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