

APPENDIX-1

(CVs of EMP Study Team Members)

Curriculum Vitae (CV)

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| 1. Proposed Position: | Team Leader | | |
| 2. Name of Firm: | Myanmar Koei International Ltd. | | |
| 3. Name of Expert: | Khin Maung Thane (Philip) (Mr.) | | |
| 4. Date of Birth: | 22 nd March 1963 | Citizenship: | Myanmar |
| 5. Education: | <ul style="list-style-type: none"> • 1981 ~ 1986 B.Sc., (Physics) University of Yangon, Yangon, Myanmar • 1976 ~ 1981 High-School, SHS (2) Dagon, Yangon, Myanmar • 1970 ~ 1975 Secondary School, St. Thomas' Boys School, Calcutta, India • 1969 ~ 1970 Primary School, Tabettha School, Jaffa, Israel | | |

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| 6. Membership in Professional Associations and Publications: | <ul style="list-style-type: none"> ▪ Registered ECO F2099358T (Singapore) | | | |
| 7. Other trainings: | <ul style="list-style-type: none"> ▪ Certificate in Environmental Control Officer's Course 62nd Run, Singapore Environment Institute, Singapore (5 April 2010 to 27 May 2010) ▪ Advanced Certificate in Workplace Safety & Health, Singapore Building & Construction Authority, BCA Academy, Singapore (5 April 2012 to 27 September 2012) ▪ Certificate in Access Confined Space for Safe Entry & Work, Singapore Avanta Global Pte Ltd, Singapore (24 February 2013 to 24 March 2013) ▪ Certificate in ISO 9001:2015 QMS and 14001:2015 EMS Awareness Training, the Myanmar Quality Management Center, Yangon, Myanmar (27 Aug 2017 to 28 Aug 2017) ▪ Certificate in Basic Training Course on Geographic Information Analysis System using NK-GIAS at Myanmar Koei International Limited, Yangon, Myanmar (26 Aug 2017 to 16 Sep 2017) | | | |
| 8. Countries of Work Experience: | Myanmar, Singapore | | | |
| 9. Language Skills (indicate only languages in which you can work): | LANGUAGE | SPEAKING | READING | WRITING |
| | English | Advanced | Advanced | Advanced |
| | Myanmar | Native | Native | Native |

10. Employment Record:

| Period | Employing organization and your title/position. Contact information for references | Country | Summary of activities performed relevant to the Assignment |
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| May 2018 to present | Myanmar Koei International Ltd. Manager, Environmental Department | Myanmar | Responsible for preparing annual business plan, marketing and promoting environmental projects, preparing monthly reports of large scaled projects, negotiating with clients in terms of the contract, schedule, price and etc. Finalizing the EMP/IEE/EIA reports and working for the assigned JICA, ADB, IFC & WB projects. Supervising the progress of staffs, capacity development of junior staff through On-Job Training & managing work assignment. |
| Dec 2016 - April 2018 | Myanmar Koei International Ltd Environment Engineer / Safety & Health Expert Environmental Department | Myanmar | Responsible for Health and Safety Impact Assessment, Environmental & Social Impact Assessment, preparation of IEE, EIA report including OHS and Community Health and Safety and environmental management monitoring relating to a variety of infrastructure projects, other environmental management and monitoring activities, meetings & engagements with the Client, |

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| | | | <p>Ministry of National Resources & Environment Conservation (MONREC) and other related organizations, compilation and analysis of collected information/data, writing of reports, translation of reports & documents, conduct any other activities based on instructions. Conducting PCM (Public Consultation Meetings) to present and explain the respective Project's information and description including Environmental Impacts and Assessments to the affected stakeholders in Thanlyin Township, Kyauktan Township and Thilawa SEZ.</p> <p><u>Contact Information for reference:</u> Mr. Kazuhisa Iwami, Managing Director email: iwami-kz@n-koei.co.jp</p> |
| July 2008- Mar 2015 | Chye Joo Construction Co. Ltd. Environmental Control Officer / WSH Coordinator / Public Relations Officer | Singapore | <p><u>Environmental Control Officer</u> Responsible for environmental site conditions & situations which may cause health problems in the workplace and surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports (monthly, fortnightly and daily) to authorities, consultants, clients and project manager. Preparing, inspection and supervision of vector control activities and ECM (Erosion Control Measures). Monitoring of Air, Noise, Water and ECM measures on site. Engage with authorities PUB (Public Utility Board), NEA (National Environment Agency), LTA (Land Transport Authority), HDB (Housing Development Board), MOM (Ministry of Manpower), BCA (Building & Construction Authority) on environmental related issues. Planning and carrying out of environment related activities and campaigns (Health Promotion Campaigns, Site Carpet Combing & Dengue Prevention Exercises and Talks, Green & Gracious Campaigns).</p> <p><u>WSH Coordinator</u> Responsible for workplace safety and health in the project site, involvement in safety supervision duties, daily/weekly/monthly site-walk WSH (Workplace Safety & Health) inspections & meetings. Recording & data collection of WSH/ECM activities on site. Conduction of daily/weekly mass toolbox meetings & safety induction of new workers. Supervision of work activities and respective documentation. Engage with MOM (Ministry of Manpower) & BCA (Building & Construction Authority) on WSH issues. Participation in planning & conducting site Safety Campaigns, Fire Drills, Flood Drills and Electric Safety briefings.</p> <p><u>Public Relations Officer</u></p> |

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| | | | <p>To engage & communicate with local stakeholders, town council clients, consultants and authorities to inform/distribute leaflets, circulars, letters, information regarding construction work related activities. Respond & attend to complaints, comments, feedback & suggestions from all involved parties.</p> <p><u>Confined Space Accessor</u></p> <p>To ensure high risk workplace activities inside a confined space area is safe for work (inside sewer/drainage man-holes, enclosed spaces, box culverts, drains) by conducting mandatory oxygen tests & ensuring employees are adequately equipped as per regulations. Planning and conducting Confined Space Briefing and Drills.</p> <p><u>Ad-hoc Duties</u></p> <ul style="list-style-type: none"> ▪ Assisting, coordinating and participation in yearly IMS (Integrated Management System) audit conducted by external auditors at company headquarters and selected company's construction work sites. Ensuring the Company's QMS & EMS Policies and Objectives are complied with in the Project Sites by implementing the documentation process. ▪ Main site personnel responsible for the company to achieve & maintain Green and Gracious Builder award by BCA in planning, implementing & monitoring of construction related green and gracious activities and coordinating & participation in related audits. ▪ Active Member of company's BCM (Business Continuity Management) system as main representative of WSH department. ▪ Represented company as a speaker at PUB Safety Day seminar & exhibition on 24 May 2012 at Waterhub Training Block, PUB, Singapore. <p><i>Contact Information for reference:</i> Ms. Charine Ng (HR) email: charine@chyejoo.com.sg</p> |
| Jan 1995- Apr 2008 | Transakta Myanmar Ltd Executive Secretary | Myanmar | Trading Company formed in 1992 as a trade representative office of the Czech Republic replacing the Czechoslovak Commercial office in Yangon which closed in 1991 after the separation of the Czech and Slovak Republics. Main office duty to assist the Managing Director (a Czech national) in the day to day running of the office. Attending meetings & negotiations with local government departments, enterprises & industries of various ministries (Ministry of Industry 1&2, Ministry of Agriculture, Ministry of Mines, Department of Procurement Ministry of Defence, YCDC, Ministry of Railways, Printing & Publishing Enterprise Ministry of Information) and local companies, liaison with Czech based companies to obtain offers for various commodities of the Czech Republic, (namely components & spare parts for diesel generators, trucks/tractors, tire plants & sugar mill, |

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| | | | <p>diesel locomotives, Czech and Indian produced printing machines, Czech made Bohemia Crystal Chandeliers supplied to local hotels), preparing & submitting of letter & offers to end-users. Preparing of Firm Orders, Contracts and follow up of banking/shipping documents for the sale, transportation & import of Czech imports to Myanmar and export of Myanmar agricultural commodities such as dark red kidney beans & small white beans to the Czech Republic and Indonesia. To assist & accompany Czech visitors & delegations during business trips to Myanmar, provide transportation & hotel accommodations in various cities in Myanmar etc. Solely responsible for Yangon office approximately 3 months a year during the absence of Managing Director (home visits, holidays).</p> <p><i>Contact Information for reference:</i> Mr. Pavel Cihak (Managing Director retired) email: pavel.cihak54@gmail.com</p> |
| Aug 1994- Dec 1994 | Summit Parkview Hotel Assistant Food & Beverage Supervisor | Myanmar | <p>1st International hotel in Myanmar opened in December 1994. Initial duty training & orientation of hotel restaurant & bar operation works to captains, bartenders, waiters & waitresses for 2 months. During operation, main duty to supervise restaurant and bar operation and running. Work included shift allocation & duty roster, assigning responsibilities of employees, ordering of supplies & sundries, etc.</p> |

| 11. Detailed Tasks: | 12. Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks: |
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| | <p>Name of assignment or project: EMP Study on Operation of Beverage (Soft Drinks) Manufacturing in Hlaing Thar Yar Industrial Zone, Hlaing Thar Yar Township, Yangon</p> <p>Year: Jan 2020 to date</p> <p>Location: Myanmar</p> <p>Client: Private</p> <p>Main Project Features: Manufacturing of Soft-drinks & non-alcoholic beverages for local distribution and sales</p> <p>Position held: Team Leader</p> <p>Activities performed: Responsible for the EMP Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Conducting meetings & engagements with the Client and other related organizations and site visits to Project Site. Leading and supervising team members in the compilation and analysis of collected information/data, writing of EMP report and translation of reports & documents pertaining to the EMP Study.</p> |
| | <p>Name of assignment or project: IEE Study on Construction and Operation of Manufacturing Pharmaceutical Products in Thilawa SEZ Zone B</p> <p>Year: Aug 2019 to date</p> <p>Location: Myanmar</p> <p>Client: Private</p> <p>Main Project Features: Manufacturing of Medicine for local distribution and sales</p> <p>Position held: Team Leader</p> <p>Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Conducting meetings & engagements with the Client and other related organizations and site visits to Project Site. Leading and supervising team</p> |

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| | members in the compilation and analysis of collected information/data, writing of IEE report and translation of reports & documents pertaining to the IEE Study. |
| | Name of assignment or project: IEE Study on Construction and Operation of Manufacturing and Wholesales of Beverage in Cans, Glass Bottles and Plastic Bottles in Thilawa SEZ Zone B |
| | Year: Jun 2019 to date |
| | Location: Myanmar |
| | Client: Private |
| | Main Project Features: Manufacturing of Beverages (Energy Drinks) for local distribution and consumption |
| | Position held: Team Leader |
| | Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Conducting meetings & engagements with the Client and other related organizations and site visits to Project Site. Leading and supervising team members in the compilation and analysis of collected information/data, writing of IEE report and translation of reports & documents pertaining to the IEE Study, responding to comments from Environment Section of OSSC in TSEZ to issue IEE Approval (and ECC by MONREC). |
| | Name of assignment or project: IEE Study on Construction and Operation of Insecticide Aerosol Products Manufacturing Factory in Thilawa SEZ Zone A |
| | Year: Jun 2019 to date |
| | Location: Myanmar |
| | Client: Private |
| | Main Project Features: Manufacturing of Insecticide Aerosol Products for local distribution and sale |
| | Position held: Team Leader |
| | Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Conducting meetings & engagements with the Client and other related organizations and site visits to Project Site. Leading and supervising team members in the compilation and analysis of collected information/data, writing of IEE report and translation of reports & documents pertaining to the IEE Study & responding to comments from Environment Section of OSSC in TSEZ to issue IEE Approval (and ECC by MONREC). |
| | Name of assignment or project: IEE Study on Construction and Operation of Automobile & Household Lead Acid Battery Charging Manufacturing Factory in Thilawa SEZ Zone B |
| | Year: Jan 2019 to May 2019 |
| | Location: Myanmar |
| | Client: Private |
| | Main Project Features: Charging, sales & distribution of Lead Acid Storage Batteries for Automobile & Household use for local distribution and sale |
| | Position held: Safety & Health Expert |
| | Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Assisting team members in the compilation and analysis of collected information/data, writing of reports and translation of reports & documents. Conducted presentation to affected stakeholders during PCM. |
| | Name of assignment or project: IEE Study on Construction and Operation of Industrial Gas Manufacturing Factory in Thilawa SEZ Zone B |
| | Year: Jan 2019 to Dec 2019 |
| | Location: Myanmar |
| | Client: Private |
| | Main Project Features: Manufacturing of industrial gas (nitrogen, oxygen, argon and hydrogen) for local distribution and sale |
| | Position held: Team Leader |
| | Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Conducting meetings & engagements with the Client and other related organizations and site visits to Project Site. Leading and supervising team members in the compilation and analysis of collected information/data, writing of reports and translation of reports & documents, responding to comments from Environment Section of OSSC in TSEZ to issue IEE Approval (and ECC by MONREC). |

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| | <p>Name of assignment or project: HIC/NWRC / AIRBM Project in Yangon, Myanmar</p> <p>Year: Nov 2018 to Dec 2019</p> <p>Location: Myanmar</p> <p>Client: NK</p> <p>Main Project Features: Conceptual design and construction of NWRC HQ/HIC Building.</p> <p>Position held: Environmental Specialist</p> <p>Activities performed: Responsible for the Environmental & Social Management Plan (ESMP) Report, the impact assessment on Environmental, Safety & Health issues. Participating in PCM. Responding to comments from WB to integrate into the ESMP. Participating in pre-bid process for selection of contractor.</p> |
| | <p>Name of assignment or project: EMP Study on Asbestos Management for the Renovation of Training Workshops for JICA Project for Quality Improvement in Technical Vocational Training and Education (TVET) Program</p> <p>Year: Aug 2018-Mar 2019</p> <p>Location: Myanmar</p> <p>Client: JICA</p> <p>Main Project Features: Renovation of Training Workshop Building of Japan Myanmar Aung San Vocational Institute (JMASVTI) for Quality Improvement in TVET Program in cooperation with the Ministry of Education (MOE) and JICA.</p> <p>Position held: Chief Engineer</p> <p>Activities performed: Responsible for the Environmental Management Plan (EMP) Report, the impact assessment of Asbestos on Environmental, Safety & Health issues. Leading and supervising team members in the compilation and analysis of collected information/data related to the renovation works and Asbestos Management and preparation of reports. Conducting briefings to client, project proponent, construction supervision company & renovation contractor(s).</p> |
| | <p>Name of assignment or project: EIA Study on Construction and Operation for Manufacturing of Steel Strip Galvanizing and Painting Factory in Thilawa SEZ Zone B in Myanmar</p> <p>Year: Jul 2018- to date</p> <p>Location: Myanmar</p> <p>Client: Private</p> <p>Main Project Features: Construction and operation of a manufacturing plant for Steel Strip Galvanizing and Painting in the Thilawa SEZ Zone B for supplying to the local market.</p> <p>Position held: Team Leader, Health, Safety and Environmental Expert</p> <p>Activities performed: Responsible for the EIA Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Leading and supervising team members in the compilation and analysis of collected information/data, writing of reports and translation of reports & documents, responding to the special EIA Review Committee for EIA Study in Thilawa SEZ (the Review team is led by the Director-General of ECD of MONREC) and correspondence of comments from review committee team to issue EIA Approval (and ECC) by MONREC.</p> |
| | <p>Name of assignment or project: EMP Study on Asbestos Management for the Renovation of Training Facilities for JICA Project for Human Resources Development of Medical Engineering</p> <p>Year: Jul 2018-Dec 2018</p> <p>Location: Myanmar</p> <p>Client: JICA</p> <p>Main Project Features: Renovation of Training Facility and Dormitory (former CMSD Building) for Human Resource Development for Medical Engineering in cooperation with the Ministry of Health and Sports and JICA. Conducting briefings to client, project proponent, construction supervision company & renovation contractor(s).</p> <p>Position held: Chief Engineer</p> <p>Activities performed: Responsible for the Environmental Management Plan (EMP) Report, the impact assessment of Asbestos on Environmental, Safety & Health issues. Leading and supervising team members in the compilation and analysis of collected information/data related to the renovation works and Asbestos Management and preparation of reports</p> |

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| | <p>Name of assignment or project: EMP Study on the Operation for Rice Mill in Thilawa Port Area</p> <p>Year: Jun 2018-Dec 2018</p> <p>Location: Myanmar</p> <p>Client: Private Company</p> <p>Main Project Features: The project is to operate the rice mill factory with estimated production design capacity of 1800 MTPD for rice and bran oil production.</p> <p>Position held: Environmental Expert</p> <p>Activities performed: Responsible for the Environmental Management Plan (EMP), the impact assessment of Environmental & Social issues, Safety & Health issues. Leading and supervising team members in the compilation and analysis of collected information/data related to the rice milling operation and preparation, finalizing and submission of reports and attending Review Meeting at ECD, MONREC in Nay Pyi Taw.</p> |
| | <p>Name of assignment or project: IEE Study on Construction and Operation for Manufacturing of Can, Beverage and Milk Powder Production in Thilawa SEZ Zone A (Myanmar)</p> <p>Year: Jan 2018-Oct 2018</p> <p>Location: Myanmar</p> <p>Client: Private Company</p> <p>Main project features: Manufacturing and production plant for Aluminium Cans, Beverage and Milk Powder in the Thilawa SEZ Zone A for supplying to the local market</p> <p>Position held: Safety, Health & Environmental Expert</p> <p>Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Assisting team members in the compilation and analysis of collected information/data, writing of reports and translation of reports & documents. Conducted presentation to affected stakeholders during PCM.</p> |
| | <p>Name of assignment or project: IEE Study on Construction and Operation for Manufacturing of Paper Boxes and Cartons and Printing of General Paper and Board for Boxes and Cartons in Thilawa SEZ Zone A (Myanmar)</p> <p>Year: Jan 2018-Jun 2018</p> <p>Location: Myanmar</p> <p>Client: Private Company</p> <p>Main project features: Construction and operation of a manufacturing plant for Paper Boxes and Cartons and Printing of General Paper and Board for Boxes and Cartons in the Thilawa SEZ Zone A for supplying to the local market</p> <p>Position held: Safety, Health & Environmental Expert</p> <p>Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Assisting team members in the compilation and analysis of collected information/data, writing of reports and translation of reports & documents.</p> |
| | <p>Name of assignment or project: IEE Study on Construction and Operation for Manufacturing of Transmission Lines Tower, Telecommunication Tower, General Steel Fabrication and Hot-Dip Galvanize Service in Thilawa SEZ Zone A (Myanmar)</p> <p>Year: Jan 2018-Sep 2018</p> <p>Location: Myanmar</p> <p>Client: Private Company</p> <p>Main project features: Construction and operation of a manufacturing plant for Transmission Lines Tower, Telecommunication Tower, General Steel Fabrication and Hot-Dip Galvanize Service in the Thilawa SEZ Zone A for supplying to the local market</p> <p>Position held: Team Leader / Safety, Health & Environmental Expert</p> <p>Activities performed: Responsible for the IEE Report, the impact assessment of Environmental & Social issues, Safety & Health issues. Conducting meetings & engagements with the Client and other related organizations and site visits to Project Site. Assisting team members in the compilation and analysis of collected information/data, writing of reports and translation of reports & documents & responding to comments from Environment Section of OSSC in TSEZ to issue IEE Approval (and ECC by MONREC).</p> |
| | <p>Name of assignment or project: IEE Study on Construction and Operation for Manufacturing of Speaker and it's Component in Thilawa SEZ Zone A (Myanmar)</p> <p>Year: Aug 2017-Jul 2018</p> |

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| | <p>Location: Myanmar</p> <p>Client: Private Company</p> <p>Main project features: Construction and operation of an extension building to the current Speaker Manufacturing Factory to increase the capacity of speaker products for future export and supply to the European, Japanese and U.S.A. vehicle markets.</p> <p>Position held: Team Leader / Safety, Health & Environmental Expert (1)</p> <p>Activities performed: Responsible for the writing of Project Description and its Production Processes, the impact assessment of Environmental & Social issues, Safety & Health issues for the preparation of the IEE report. Conducting meetings & engagements with the Client and other related organizations and site visits to Project Site. Supervising and allocating of duties to team members in the compilation and analysis of collected information/data, writing of reports and translation of reports & documents & responding to comments from Environment Section of OSSC in TSEZ to issue IEE Approval (and ECC by MONREC).</p> |
| | <p>Name of assignment or project: EIA Study on Construction and Operation of a Clinker Grinding Mill in Thilawa SEZ Zone A (Myanmar)</p> <p>Year: Jan 2017-Apr 2018</p> <p>Location: Myanmar</p> <p>Client: Private Company</p> <p>Main project features: Construction and operation of a cement production plant with capacity of 1-2 million tons per year and to distribute the cement products locally where demand is high.</p> <p>Position held: Deputy Team Leader / Safety and Health Expert (1)</p> <p>Activities performed: Responsible for Environmental & Social Impact Assessment and Safety & Health Impact Assessment for preparation and submission of EIA report, meetings & engagements with the Client and other related organizations. Compilation and analysis of collected information/data, writing of reports, translation of reports & documents, conduct any other work activities upon instructions. Conducting PCM (Public Consultation Meeting) to present respective Project's information and description including Environmental Impacts and Assessments to the concerned and affected stakeholders in Thanlyin Township, Kyauktan Township and Thilawa SEZ. Attending and responding to the special EIA Review Committee for EIA Study in Thilawa SEZ (the Review team is led by the Director of ECD of MONREC) and correspondence of comments from review committee team to issue EIA Approval (and ECC) by MONREC.</p> |
| | <p>Name of assignment or project: Feasibility Study on Improvement of Sewerage Infrastructure in Yangon City (Myanmar)</p> <p>Year: Dec 2016-Mar 2017</p> <p>Location: Myanmar</p> <p>Client: METI (Japan)</p> <p>Main project features: Data collection, environmental and social consideration for the improvement and upgrading of outdated and old Yangon sewerage system.</p> <p>Position held: Environmental Engineer</p> <p>Activities performed: Responsible for Environmental & Social survey and Safety & Health survey, support to prepare and write Feasibility Report, meetings & engagements with the Client and other related organizations. Compilation and analysis of collected information/data, writing of reports, translation of reports & documents, conduct any other work activities upon instructions.</p> |
| | <p>Name of assignment or project: Resettlement Work Plan (RWP) for Area 2-2 East (The 108ha Development Area of Zone B of Thilawa SEZ) (Myanmar)</p> <p>Year: Dec 2016</p> <p>Location: Myanmar</p> <p>Client: JICA</p> <p>Main project features: Development of Thilawa Special Economic Zone</p> <p>Position held: Environmental Engineer</p> <p>Activities performed: Translation from English to Myanmar of Chapter 8 Public Participation and Information Disclosure</p> |
| | <p>Name of assignment or project: Contract No. ER393 Proposed Flyover at West Coast Highway across Jalan Buroh (Singapore)</p> |

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| | Year: Mar 2014 to Mar 2015 |
| | Location: Singapore |
| | Client: LTA (Land Transport Authority) Singapore |
| | Main project features: -Construction of overhead flyover at the circle across Jalan Buroh to ease traffic congestion near port area -Road expansion, road diversion, drainage construction -Demolition of factory buildings, removal of (POB) pedestrian overhead bridge, round-a-bout circle -Piling for overhead columns |
| | Position held: Environmental Control Officer, Confined Space Accessor |
| | Activities performed: <i>Environmental Control Officer</i> Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), LTA (Land Transport Authority) on environmental related issues. Planning & carrying out of environment related activities & campaigns (Health Promotion Campaigns, Site Carpet Combing & Dengue Prevention Exercises, Green & Gracious Campaign). Attending site progress meetings, WSH meetings, etc. <i>Confined Space Accessor</i> To ensure high risk workplace activities inside a confined space area is safe for work (inside sewer/drainage man-holes, enclosed spaces, box culverts, drains) by conducting mandatory oxygen tests & ensuring employees are adequately equipped as per regulations. |
| | Name of assignment or project: Proposed Erection of 2-Storey Taxi Queuing Deck & Elevated Roadways on Lots 01277V & 04594L MK31 (Singapore) |
| | Year: Mar 2014 to Mar 2015 |
| | Location: Singapore |
| | Client: CAG (Changi Airport Group Pte Ltd), Singapore |
| | Main project features: -Construction of taxi queuing deck & elevated roadways to ease traffic congestion of taxis in Changi Airport Terminal 3 -Piling for deck & roadway columns -Drainage construction |
| | Position held: Environmental Control Officer |
| | Activities performed: Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency) on environmental related issues. Attending site progress meetings, WSH meetings, etc. |
| | Name of assignment or project: Contract No. D/47/12 Site Clearance & Earthworks at Bukit Panjang Town N6 (Singapore) |
| | Year: Feb 2013 to Mar 2015 |
| | Location: Singapore |
| | Client: HDB (Housing Development Board) Singapore |
| | Main project features: -Clearing of wooded area and cutting down to required elevation for future community center & food court |

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| | <p>-Construction of box culverts, drains -Blasting of rocks</p> |
| | <p>Position held: Environmental Control Officer, WSH Coordinator, Public Relations Officer</p> |
| | <p>Activities performed: <i>Environmental Control Officer</i> Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), HDB (Housing Development Board) on environmental related issues. Planning & carrying out of environment related activities & campaigns (Dengue Prevention Exercises, Green & Gracious Campaign). Attending site progress meetings, WSH meetings, etc.</p> <p><i>WSH Coordinator</i> Responsible for workplace safety & health in the project site, involvement in safety supervision, daily/weekly/monthly site walk WSH inspections & meetings. Record & data collection of WSH/ECM activities on site. Planning and carrying out of Safety Campaigns.</p> <p><i>Public Relations Officer</i> To engage & communicate with local stakeholders, town council & authorities to inform/distribute leaflets, circulars, letters, information regarding construction work related activities. Respond & attend to complaints, comments, feedback & suggestions from all involved parties.</p> |
| | <p>Name of assignment or project: Construction of Sumang Walk Part 4 & Vehicular Bridge across Punggol Waterway; Construction of Sumang Walk Part 5 and Sumang Link Part 2; Construction of Trunk Sewer No. 22 along Sumang Walk & Sumang Link (Singapore)</p> |
| | <p>Year: July 2013 to Dec 2014</p> |
| | <p>Location: Singapore</p> |
| | <p>Client: HDB (Housing Development Board) Singapore</p> |
| | <p>Main project features: -Clearing of wooded area and cutting down to required elevation for future community center, food courts and bus terminal at newly developed town -Construction of vehicular bridge -Construction of box culverts, drains -Construction of sewer man-hole, sewer pipes</p> |
| | <p>Position held: Environmental Control Officer, Confined Space Accessor</p> |
| | <p>Activities performed: <i>Environmental Control Officer</i> Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), HDB (Housing Development Board) on environmental related issues. Planning & carrying out of environment related activities & campaigns (Health Promotion Campaigns, Dengue Prevention Exercises). Attending site progress meetings, WSH meetings, etc.</p> <p><i>Confined Space Accessor</i> To ensure high risk workplace activities inside a confined space area is safe for work (inside sewer/drainage man-holes, enclosed spaces, box culverts, drains) by conducting mandatory</p> |

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| | oxygen level tests & ensuring employees are safe and adequately equipped to conduct work as per regulations. |
| | <p>Name of assignment or project: Contract No. D/172/12 Construction of Pumping Station, Sewer Mains, & Substation at Choa Chu Kang (Singapore)</p> <p>Year: Jan 2013 to Sep 2014</p> <p>Location: Singapore</p> <p>Client: HDB (Housing Development Board) Singapore</p> <p>Main project features: -Construction of Pumping Station & Substation for future HDB housing projects -Construction of box culverts, drains -Construction of sewer man-hole, sewer pipes</p> <p>Position held: Environmental Control Officer, Confined Space Accessor</p> <p>Activities performed: <i>Environmental Control Officer</i> Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), HDB (Housing Development Board) on environmental related issues. Attending site progress meetings, WSH meetings, etc.</p> <i>Confined Space Accessor</i> To ensure high risk workplace activities inside a confined space area is safe for work (inside sewer/drainage man-holes, enclosed spaces, box culverts, drains) by conducting mandatory oxygen tests & ensuring employees are adequately equipped as per regulations |
| | <p>Name of assignment or project: Earthworks & Slope Formation at Bukit Batok Town N4 (Phase 2), Construction of Roads, Drains & Sewer at Bukit Batok N4 and Extension of Bukit Batok West Avenue 8 (Singapore)</p> <p>Year: May 2014 to August 2014</p> <p>Location: Singapore</p> <p>Client: HDB (Housing Development Board) Singapore</p> <p>Main project features: -Clearing of wooded area and cutting down to required elevation for future HDB housing buildings and community center -Construction of roads, drains & sewers</p> <p>Position held: Environmental Control Officer</p> <p>Activities performed: <i>Environmental Control Officer</i> Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), HDB (Housing Development Board) on environmental related issues. Attending site progress meetings, WSH meetings, etc.</p> |
| | <p>Name of assignment or project: Proposed Box Culvert from Marymount Lane to Marymount Road (Singapore)</p> <p>Year: July 2012 to Feb 2014</p> |

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| | <p>Location: Singapore</p> <p>Client: PUB (Public Utilities Board) Singapore</p> <p>Main project features: -Construction of box culvert under road intersection for enhanced capacity of canal during heavy flooding and to lessen flood impacts in the surrounding area -Road diversion works, piling works, soil improvement works</p> <p>Position held: Environmental Control Officer</p> <p>Activities performed: Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), LTA (Land Transport Authority), HDB (Housing Development Board) on environmental related issues. Planning & carrying out of environment related activities & campaigns (Health Promotion Campaigns, Dengue Prevention Exercises, Green & Gracious Campaign). Attending site progress meetings, WSH meetings, etc.</p> |
| | <p>Name of assignment or project: Proposed Site Clearance & Earthworks and Construction of Outlet Drains at Choa Chu Kang N8, Proposed Site Clearance & Earthworks at Bukit Batok Town N4 (Part South) (Singapore)</p> <p>Year: Sep 2012 to Dec 2013</p> <p>Location: Singapore</p> <p>Client: HDB (Housing Development Board) Singapore</p> <p>Main project features: -Clearing of wooded area and cutting down to required elevation for future HDB housing building and community center -Construction of box culverts, drains & sewers</p> <p>Position held: Environmental Control Officer</p> <p>Activities performed: Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), HDB (Housing Development Board), on environmental related issues. Planning & carrying out of environment related activities & campaigns. Attending site progress meetings, WSH meetings, etc.</p> |
| | <p>Name of assignment or project: ABC Waters Programme Proposed Development of Kallang River - Bishan Park (from Upper Thomson Road to Bishan Road) (Singapore)</p> <p>Year: June 2010 to June 2012</p> <p>Location: Singapore</p> <p>Client: PUB (Public Utilities Board) Singapore, NParks (National Parks), Singapore</p> <p>Main project features: -Clearing of wooded area along concrete canal and cutting down to required elevation for future food courts, parkway -Demolition of existing concrete water canal and re-turning of the environment into natural stream and riverbed as part of Singapore's ABC (Active, Beautiful, Clean) Project. -Upgrading of park facilities, drains, playgrounds, jogging tracks, ponds</p> |

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| | <p>-Landscaping of river bed -Construction of 3 new pedestrian foot bridges across stream and removal of 2 old pedestrian foot bridges. -Reusing of recycled concrete materials to create slopes along the natural stream</p> <p>Position held: Environmental Control Officer</p> <p>Activities performed: Responsible for environmental site conditions & situations which may cause health problems in the workplace & surrounding community. To point out environmental health irregularities (mosquito breeding, rodent infestation, noise/dust/smoke/water pollution, littering, refuse management, sanitary facilities, etc.) and carry out mitigation & rectification measures. Supervision of the monitoring and maintenance of environment appliances and equipment (noise meters, water treatment TSS units, real-time CCTV monitoring). Submission of environmental related reports to authorities, consultants, clients and project manager. Preparing, inspection, supervision & monitoring of vector control activities & ECM (Erosion Control Measures) on site. Engage with local authorities PUB (Public Utilities Board), NEA (National Environment Agency), HDB (Housing Development Board) on environmental related issues. Planning & carrying out of safety and environment related activities & campaigns (Safety Campaign, Health Promotion Campaigns, Site Carpet Combing & Dengue Prevention Exercises). Attending site progress meetings, WSH meetings, etc.</p> <p><i>Other duties</i> Supervision and planning of video and photographic record taking of weekly site construction progress and activities, Supervision of installation of monitoring devices for water stream.</p> |
| | <p>Name of assignment or project: ER204 Widening of Jurong Town Hall Road (from PIE to Boon Lay Way & Jurong East Central to AYE) (Singapore)</p> <p>Year: July 2009 to May 2010</p> <p>Location: Singapore</p> <p>Client: LTA (Land Transport Authority) Singapore</p> <p>Main project features: -Construction of 3 (POB) pedestrian overhead bridges -Road widening to enhance traffic flow capacity, road diversion, drainage construction -Removal of 2 (POB) pedestrian overhead bridges -Piling for bridges</p> <p>Position held: Public Relations Officer</p> <p>Activities performed: To engage & communicate with local stakeholders, town council, clients, consultants & authorities to inform/distribute leaflets, circulars, letters, information regarding construction work related activities. Respond & attend to complaints, comments, feedback & suggestions from all involved parties. Engage with local authorities LTA (Land Transport Authority), HDB (Housing Development Board), MOM (Ministry of Manpower), BCA (Building & Construction Authority) on construction rules and regulations related issues and documentation.</p> |
| | <p>Name of assignment or project: Proposed Infrastructure (Civil, Structural, Mechanical & Electrical) at the University Town, National University of Singapore (Singapore)</p> <p>Year: July 2008 to June 2009</p> <p>Location: Singapore</p> <p>Client: NUS (National University of Singapore)</p> <p>Main project features: Construction of infrastructure (roads, drains, box culverts and retaining walls) for the future University Town featuring housing for lecturers and learning facilities.</p> <p>Position held: Public Relations Officer</p> <p>Activities performed: To engage & communicate with local stakeholders, town council, clients, consultants & authorities to inform/distribute leaflets, circulars, letters, information regarding construction work related activities. Respond & attend to complaints, comments, feedback & suggestions from all involved parties. Engage with local authorities LTA (Land Transport Authority), HDB (Housing Development Board), MOM (Ministry of Manpower), BCA (Building &</p> |

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| | Construction Authority) on construction rules and regulations related issues and documentation. |
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13. Certification:

- i) I certify that (1) to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience; (2) that I am available for the assignment for which I am proposed; and (3) that I am proposed only by one Offeror and under one proposal.
- ii) I understand that any willful misstatement or misrepresentation herein may lead to my disqualification or removal from the selected team undertaking the assignment.



DATE:

24

January

2020

[Signature of expert or authorized representative of the firm]

Day/Month/Year

Day

Month

Year

June 2006
– July 2008

Ministry of Science and Technology
Assistant Lecturer

Myanmar Academic Teaching & Research
Fuel and Propellant Engineering Department,
Myanmar Aerospace Engineering University, Meikhtila,
Myanmar.
064 – 35241, 35245, 35243

Contact Information for reference Mr. Takuji Kataoka, Managing Director **a3400@n-koei.co.jp**

4. Membership in Professional Associations and Publications:

- Member, Myanmar Engineer Society (No. 029790-M/CH)
- Core Member of Quality Management Experts, Quality Management Centre, Myanmar Engineering Society
- Member, Executive Committee, Myanmar Association of Chemical Engineering
- Registered, Transitional Consultant, Environmental Conservation Dept. (ECD), Min. of Natural Resources & Environmental Conservation (MONREC)
- Registered Senior Engineer (Chemical Engineering), Myanmar Engineering Council

5. Language Skills:

| | <i>Speaking</i> | <i>Reading</i> | <i>Writing</i> |
|---------|-----------------|----------------|----------------|
| English | Good | Good | Good |

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks:

Social and Environmental Study (IEE/EMP) for Water Supply Sector under Regional Development Project for Poverty Reduction Phase II

Period : Oct 2018 ~ Nov 2021 (Tentatively)
Client/Finance : Japan International Cooperation Agency (JICA) & Department of Rural Development (DRD)
Types of Service : Initial Environmental Examination (IEE)/ Environmental Management Plan (EMP)
Position : Environmental and Social Specialist

Responsible for the reviewing of the design services for water supply system, social and natural condition surveys, and previous studies, confirmation of site condition, reviewing and updating the abbreviated resettlement action plan (ARAP) and countermeasures for negative impacts, assisting in the implementation of public consultation meeting (PCM) and setting up of Grievance Redress Mechanism (GRM) and also assisting the Senior Environmental and Social Specialist with preparation and submission of IEE/ EMP reports.

The main features of the Project:

Water Supply Sector is one of the Sectors which are aimed to improve and upgrade the basic infrastructures by implementing the Regional Development for Poverty Reduction Phase II Project (PR Water II) funded by JICA's Loan. There are 22 subprojects and which are distributed across 4 states and 5 regions of Myanmar, namely: 1) Rakhine State, 2) Kayin State, 3) Mon State, 4) Shan State, 5) Magway Region, 6) Mandalay Region, 7) Ayeyarwady Region, 8) Bago Region, and 9) Tanintharyi Region. The water source for 16 subprojects is river water and for 6 subprojects is tube well water. Water supply systems of 16 subprojects will be facilitated with water treatment plant.

Environmental and Social Scoping Study for Yangon Elevated Expressway PPP Project

Period : May 2018 ~ Aug, 2018 (4 months)
Client/Finance : International Finance Corporation (IFC)
Types of Service : Environmental and Social Scoping Report
Position : National Environmental Expert

Responsible for the proper conduct and planning of the design services, assist the International Environmental Specialist with preparation and submission of inception report, review of natural condition surveys and previous studies, confirmation of site condition, determination of design criteria and identification of optimum alignment, and preparation of environmental and social scoping report.

The main features of the Project:

The current rapid urbanization and motorization put more and more pressure on the existing transport infrastructure in Yangon City and its surrounding areas. The Government of Myanmar through Ministry of Construction would like to implement an up to 47.5 km four lane, north-south elevated expressway toll road in Yangon through a Public Private Partnership (PPP). To identify key environmental and social risks and impacts of the Yangon Elevated Expressway Project during pre-construction, construction and operation, environmental and social scoping study was conducted.

Manufacturing and Marketing of Beer and its By-products

Period : Jan, 2018 ~ April, 2018 (3.5 months)
Client/Finance : Mandalay Brewery Ltd.
Types of Service : Initial Environmental Examination (IEE) Report
Position : Environmental Expert/ Air Quality Expert

Activities performed:

- (1) Define the baseline for future environmental audits of the proposed project
- (2) Identify possible impacts of the project on the environment.
- (3) Predict likely changes in the environment as a result of the manufacturing.
- (4) Propose mitigation measures for the significant negative impacts of the project on the environment.
- (5) Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.
- (6) Highlight environmental issues with a view to guiding policy makers, planners, stakeholders and government agencies to make environmentally and economically sustainable decisions.

The main features of the Project:

Mandalay Brewery Ltd. is operating a malt-based brewery producing 240 HLPD (HL/day, 1 HL=1000 L). Mandalay Brewery Ltd. which is a subsidiary of Myanma Economic Holdings Ltd. (MEHL) from the Republic of the Union of Myanmar made a joint-venture with Kirin Holdings Singapore Pte. Ltd. from Singapore and the Myanmar Investment Commission (MIC) has approved a proposal on September 2017.

Construction and Operation of Clinker Grinding Mill in Thilawa Special Economic Zone A

Period : June 2017 ~ Jan, 2018 (7 months)
Client/Finance : Yojin Myanmar Cement Co., Ltd.
Types of Service : Environmental Impact Assessment (EIA) Report
Position : Environmental Expert/ Air Quality Expert

Responsible for the preparation of air quality assessment because the proposed project will use two units of vertical mill to grind the clinker, gypsum and other additives and thus there will be air emission from the plant. Also, responsible for hazardous materials assessment because the proposed project will produce cement and utilize large amount of diesel oil.

The main features of the Project:

Yojin Myanmar Cement Co., Ltd is going to establish the factory in Thilawa Special Economic Zone A for the manufacturing of cement with the production amount of annually two million tons per year. Clinker, gypsum, and other additives are essentially required raw materials for cement production.

Pre-Stressed High-Strength Concrete Pile Manufacturing Factory in Thilawa Special Economic Zone A

Period : Oct 2016 ~ June, 2017 (9 months)
Client/Finance : VJP Co., Ltd.
Types of Service : Initial Environmental Examination (IEE) Report
Position : Environmental Expert/ Air Quality Expert

Responsible for the preparation of air quality assessment because the proposed project will use two units of diesel fire boiler to cure the pre-stressed high-strength concrete pile with steam and thus there will be air emission from the plant. Also, responsible for hazardous materials assessment because the proposed project will utilize cement, diesel oil, dilute sulfuric acid, and chemical admixture. Moreover, combination of the assessment reports from the experts of IEE Team and preparation of IEE report were conducted.

The main features of the Project:

VJP Co., Ltd is going to establish the factory in Thilawa Special Economic Zone A for the manufacturing of Pre-stressed High Strength Concrete Pile called spun piles with the production amount of annually 50,000 tons per year per 1 shift operation and maximum of 100,000 tons per year per 2 shift operation with 150 persons.

Cement, sand, aggregates and the steel are essentially required raw materials for the spun pile production. The steels are cut and processed into the steel cage and then set up in the mold. Cement is poured into the mold and then the steel is tensioned by mean of machine to obtain the desired strength.

Centrifugal force extracts the excess water from the fresh concrete placed in the mold. Steam curing is carried out to gain the rapid development strength concrete. After completing the steam curing, the form is removed and the required inspection is carried out. Finally, the good quality pre-stressed high strength piles will be distributed to the customer by using the convenient mode of transport

Preparation of Scoping Report for Environmental Impact Assessment for Electronic Parts Factory

Period : November 2016 – January 2017
Client/Finance : E & E Magnetic Products (Myanmar) Co., Ltd.
Plot No. 240, Kanaung Minthargyi Road, Hlaing Tharyar Industrial Zone (2), Yangon, Myanmar
Types of Service : Scoping Report for Environmental Impact Assessment
Position : Environmental Expert

Responsible for the preparation of operational checklist for Environmental Study and supervised preliminary field visit. Collected primary and secondary data and also facilitate public consultation meeting. Moreover, preparation of scoping report and Term of References for the production of electronic parts.

The main features of the Project:

The intended business activities of E & E Magnetic Products (Myanmar) Limited are: (1) to establish factories for manufacturing, assembling, designing and altering of magnetic and electronic products under CMP Basis and any other similar products including any spare part equipment related to such products; (2) to operate the business of subcontractor of products capable to be produced per the aforesaid objective. The produced magnetic parts and products are used in six major areas: Networking Discrete, Magnetic Integrated Connectors, Telecom Discrete, Broadband Access, Power Magnetics and Electronic Modules.

Preparation of Environmental Management Plan for Manufacturing of i-care sanitary napkin project

Period : October 2016 – January 2017
Client/Finance : United Pacific Co., Ltd.,
Yangon-Insein road, Mayangone Township, Yangon, Myanmar
Types of Service : Environmental Management Plan Report
Position : Environmental and Social Expert

To identify, access, analyze and evaluate the potential positive and negative impacts of the project on the biophysical, cultural and socioeconomic environment;

To recommend appropriate environmental management measures for mitigation of negative impacts emanating from the project;

To propose mitigation measures of potential negative impacts and environmental disruption by the project activities;

To propose EMP compliance monitoring and auditing.

The main features of the Project:

United Pacific Company Limited intends to operate “i care” Sanitary Protection Product Factory in Mayangone Township, Yangon. The main aim of the project is to manufacture environmental friendly sanitary products which are acceptable to women in terms of concerns relating to health, comfort and convenience.

Preparation of Environmental Management Plan for the manufacturing of garment factory

Period : September 2016 – January 2017
Client/Finance : Lia International Co., Ltd.
No.41, Bamaw Atwin Win Street, Industrial Zone (3), Hlaing Thar Yar Industrial City, Yangon Region, Myanmar.
Types of Service : Environmental Management Plan Report
Position : Environmental and Social Expert

To offer a document which sets forth all the measures identified to prevent, minimize, mitigate and compensate for the potential negative impacts derived from the construction and operation phases of the proposed industry, as well as to enhance the positive impacts,

To design the mechanisms for accident prevention and response, and for contingencies which may arrive during the execution and operation of the Project.

The main features of the Project:

The proposed project is a manufacturing socks under CMP basis. Socks manufacturing processes include all activities from the POINT when yarns are received at the factory to when retail-ready socks are shipped to the distributor. Some processes, such as knitting, sewing and ironing occur in the manufacturing of all garments. Other optional processes may also be performed as specified by the customer, including such things as embroidering, screen printing, and laundering. Depending on the size of the manufacturing facility, some socks manufacturers choose to subcontract those optional processes.

Preparation of Environmental Management Plan for Electronic Parts Factory

Period : October 2016 – January 2017
Client/Finance : Global Electric Technology Co., Ltd.
Plot No.235, Kanaung Min Thar Gyi Road, Hlaing Thar Yar Industrial Zone (2), Hlaing Thar Yar Township,
Yangon Region, Myanmar.
Types of Service : Environmental Management Plan Report
Position : Environmental, Occupational, Health and Safety Expert

To prepare for:

- (1) mitigation and consideration measures taken in the course of project implementation examined based on project description and results of the environmental impact assessment (EIA), social impact assessment (SIA), health impact assessment (HIA), and emergency risk assessment (ERA);
- (2) monitoring plan to confirm if mitigation and consideration measures as well as the environmental levels were properly taken in the construction, operation, and decommissioning phases through environmental measurement;
- (3) reporting and corrective action plans; and
- (4) capacity development and training.

The main features of the Project:

Global Electric Technology Co., Ltd. is producing the Instrument Transformers such as ferrite core, steel core, ferrite toroid core, steel toroid core, and ferrite inductance which are used in TV, Air conditioner, Refrigerator, Computer, etc.
Manned winding machine, tapping machine, packing machine, heating machine, steel plate assembly machine, iron plate drilling machine, varnish machine, vacuum chamber and a vacuum oven chamber, cleaning & backing machine are mostly used in the manufacturing process.

Implementation of Initial Environmental Examination for construction and operation of Hotel project

Period : June 2016 – December 2016
Client/Finance : Yamaman Co., Ltd.
Block No. 34, Settlement No. Kan Be, Lot. No.16/Kha-1, 16/ Kha-2, Thit Sar Road, 13th Ward, Yankin Township,
Yangon, Myanmar
Types of Service : Initial Environmental Examination Report
Position : Environmental and Social Expert

The activities were to:

- Identify and analyze the impacts of the proposed project on the natural environment
- Evaluate impacts of the project on the socio-cultural environment
- Assess impacts on infrastructure and social amenities (sewerage, water supply, road network, electricity)
- Assess and predict any effects on any sensitive ecosystems
- Formulate an Environmental Management Plan (EMP).

The proposed project for which this Initial Environmental Examination (IEE) Study report has been prepared is a construction project that will involve hotel business, management of restaurant, café, gymnasium, shops and stores on Block No. 34, Settlement No. Kan Be, Lot. No.16/ Kha-1, 16/ Kha-2, Thit Sar Road, 13th Ward, Yankin Township, Yangon, Myanmar.

Project for Preparation of Environmental Management Plan for the construction and operation of garment factory

Period : June 2016 – December 2016
Client/Finance : Seduno (Myanmar) Fashion Co., Ltd.
No. (K-7), Ward No. (20), Hnin Si Street, Anawyahta Industrial Zone (2), Hlaing Tharyar Township, Yangon
Region, Myanmar.
Types of Service : Environmental Management Plan Report
Position : Environmental Expert

Activities performed:

- To identify, access, analyze and evaluate the potential positive and negative impacts of the project on the biophysical, cultural and socioeconomic environment;
- To recommend appropriate environmental management measures for mitigation of negative impacts emanating from the project;
- To propose mitigation measures of potential negative impacts and environmental disruption by the project activities;
- To propose EMP compliance monitoring and auditing.

The main features of the Project:

Manufacturing of T-shirt, vest, polo, sportswear, dress, pants and jacket, all of which are to be exported.

Preparation of Environmental Impact Assessment for Mandalay Industrial Zone Central Wastewater Treatment Project

Period : December 2015 – April 2016
Client/Finance : Hydrotek Supreme Mandalay Co., Ltd.
Plot Number 585, Natyaykan-Sauktawwa Village Tract, Amarapura Township, Mandalay Region, Myanmar.
Types of Service : Environmental Impact Assessment Report
Position : Environmental Expert and Field Coordinator

Activities performed:

- to establish the baseline environmental setting in the above stated area,
- to assess the potential impacts of the proposed project components on different environmental components,
- to develop adequate and feasible mitigation measures so as to keep residual impacts within acceptable limits and develop monitoring and other measures as necessary to ensure successful implementation.

The main features of the Project:

The project is to be developed in Amarapura Township with a total area of 4.97 acres (20,113 sq. m). Hydrotek Supreme Mandalay Co., Ltd., a joint-venture company between Hydrotek Public Company Limited (80%) from Thailand and Supreme Enterprise Limited (20%) from the Republic of the Union of Myanmar has identified and leased the above-mentioned land in Amarapura Township. The proposed project is the Mandalay Industrial Zone Central Wastewater Treatment Plant and Collection System.

The project will be developed as an Environmental Pollution Prevention Project spread over 4.97 acres as envisaged by Hydrotek Supreme Mandalay Co., Ltd. This will be a central wastewater treatment plant project for industries existing in the Mandalay Industrial Zone, such as Distillery, Sugar Candy Factory, Sugar Factory, Leather Factory, Recycle Paper Factory and Textile Factory.

Implementation of Initial Environmental Examination report for PU-PVC-EVA-TPR injection slipper project

Period : January 2016 – March 2016
Client/Finance : Reva Co., Ltd.
Kyauk Se Industrial Zone, Mandalay Region, Myanmar
Types of Service : Initial Environmental Examination Report
Position : Environmental Expert and Field Coordinator

Activities performed:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on biophysical, socio-economic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan, and
- Confirm that IEE is sufficient for the proposed work.

The main features of the Project:

With the intention to produce PU-PVC-EVA-TPR Injection slippers, Reva Company Limited leased Rubber Slipper Factory (Kyaukse) from No.3 Heavy Industries Corporation (Formerly known as Paper and Toiletry Industry), Ministry of Industry for the term of (20+5+5) years in 2017. For the expansion of the production capacity, the proponent needs to construct a new three-storey building to install modern equipment, administrative office, rest room, toilets, septic tank, etc. The construction or pre-operational activities require mobilization of construction material and equipment.

Implementation of Initial Environmental Examination report for PU-PVC-EVA-TPR injection slipper project

Period : January 2016 – March 2016
Client/Finance : Reva Co., Ltd.
Phawt Kan, Insein Township, Yangon, Myanmar
Types of Service : Initial Environmental Examination Report
Position : Environmental Expert and Field Coordinator

Activities performed:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on biophysical, socio-economic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan, and
- Confirm that IEE is sufficient for the proposed work.

The main features of the Project:

With the intention to produce PU-PVC-EVA-TPR Injection slippers, Reva Company Limited leased Rubber Slipper Factory (Phawt

Kan) from No.3 Heavy Industries Corporation (Formerly known as Paper and Toiletry Industry), Ministry of Industry for the term of (20+5+5) years in 2017. For the expansion of the production capacity, the proponent needs to construct a new three-storey building to install modern equipment, administrative office, rest room, toilets, septic tank, etc. The construction or pre-operational activities require mobilization of construction material and equipment.

Project for Preparation of Environmental Impact Assessment for Cement Plant Factory

Period :September 2015 – June 2016
Client/Finance :Ngwe Ye' Pale Co., Ltd.
Lauk Hpan Field, Lone Yone Village Tract, Naung Cho Township, Northern Shan State, Myanmar
Types of Service :Environmental Impact Assessment Report
Position :Environmental Expert and Field Coordinator

Activities performed:

- Define the baseline for future environmental audits of the proposed project
- Identify possible impacts of the proposed project on the environment.
- Predict likely changes in the environment as a result of the development.
- Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.
- Highlight environmental issues with a view to guiding policy makers, planners, stakeholders and government agencies to make environmentally and economically sustainable decisions.

The main features of the Project:

Ngwe Yi Pa Le' Group of Co., Ltd (NYPLGC) has been producing 1,000 tons of cement per day (TPD) as phase I from the Crown Cement Factory located in Lauk Hpan Field, Lone Yone Village Tract, Naung Hkio Township, Kyauk Me District, Northern Shan State in Myanmar. The company has been permitted by MIC to produce 2,000 TPD as phase II making its total production capacity of 3,000 tons per day.

Project for Preparation of Environmental Impact Assessment report for Sugar Mill

Period :September 2015 – June 2016
Client/Finance :Ngwe Ye' Pale Co., Ltd.
Sinn Shwe Li Sugar Mill Factory (2), Naung Hkio, Kyauk Me Township, Northern Shan State, Myanmar
Types of Service :Environmental Impact Assessment Report
Position :Environmental Expert and Field Coordinator

Activities performed:

- Define the baseline for future environmental audits of the proposed project
- Identify possible impacts of the proposed project on the environment.
- Predict likely changes in the environment as a result of the development.
- Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.
- Highlight environmental issues with a view to guiding policy makers, planners, stakeholders and government agencies to make environmentally and economically sustainable decisions.

The main features of the Project:

"Sinn Shwe Li Sugar Mill Factory (2) Project" (SSLMS) which is owned by Ngwe Yi Pa Le' Group of Company Limited (NYPLGCL). The company proposes to establish a production facility for raw sugar and to use the most modern machinery of up-to-date technology in all its production lines.

Preparation of Environmental Impact Assessment report for Distillery Plant

Period : November 2015 – April 2016
Client/Finance : Shwe Mawlamyine Beverage Enterprise Co., Ltd.
Mu Pon-Nat Kyun Ward, Mawlamyine, Mon State, Myanmar
Types of Service : Environmental Impact Assessment Report
Position : Environmental and Social Expert

Activities performed:

- (7) Define the baseline for future environmental audits of the proposed project
- (8) Identify possible impacts of the proposed project on the environment.
- (9) Predict likely changes in the environment as a result of the development.
- (10) Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- (11) Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.

(12) Highlight environmental issues with a view to guiding policy makers, planners, stakeholders and government agencies to make environmentally and economically sustainable decisions.

The main features of the Project:

Shwe Mawlamyine Beverage Enterprise Co., Ltd (SMBE) plans to establish a grain-based distillery producing 648 KLPY (= 648,000 Liters/yr) Single Malt Spirit. SMBE Co., Ltd. is a public limited company registered at 9/3/2016 to venture agro-based industrial and related activities.

In the year 2013, SMBE Co., Ltd. had leased Alcohol Factory (No.4), Mawlamyine from Pharmaceutical and Food Stuff Industries, Ministry of Industry.

Implementation of Initial Environmental Examination report for Manufacturing, assembling and sales of vehicles and related business project

Period : August 2015 – January 2016
Client/Finance : Capital Motor Ltd.
Dagon Myo Thit (East) Township, Yangon, Myanmar
Types of Service : Initial Environmental Examination Report
Position : Environmental Expert and Field Coordinator

Activities performed:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on biophysical, socioeconomic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan.

The main features of the Project:

The proposed project focuses only on the motor vehicle assembly. The motor vehicles to be assembled in this Capital Motors Company include: Ranger, Everest, Fiesta, Ecosport and Focus automobiles.

Manufacturing facilities include vehicle assembly plants, which employ 23 people and produce 1883 vehicles per year.

Preparation of Environmental Impact Assessment report for construction and operation of Hotel Project

Period : July 2015 – February 2016
Client/Finance : New Star Light Co., Ltd.
Muse Central Business District (CBD), Shan State, Myanmar
Types of Service : Environmental Impact Assessment Report
Position : Environmental Expert and Field Coordinator

Activities performed:

1. Assess the project's impacts on surface run-off water
2. Assess social implications of the development within the locality, region and nationally:
 - a) Economic implications of the development.
 - b) Employment.
 - c) Livelihoods.
 - d) Demand and development of infrastructure and social amenities.
3. Develop an Environmental Management and Monitoring Plan that would mitigate the possible impacts on the environment.

The main features of the Project:

The proponent aims to construct IBIS Styles Hotel Project in Muse Township, Northern Shan State, Myanmar. The construction works will include a high-class 9-storey hotel which will comprise of 260 rooms. Many facilities will include such as All Day Dining (The breakfast room): 180 Pox, Lobby Bar, Meeting & Function Rooms, Breakout area, Business center through administration (reception counter), Fitness Center, etc.

Project for preparation of Environmental Impact Assessment report for Smelting and Refining of all nonferrous project

Period : October 2015 – March 2016
Client/Finance : Myanmar Smelting and Refining Co., Ltd.
Myaungtakar Industrial Zone, Yangon, Myanmar
Types of Service : Environmental Impact Assessment Report
Position : Environmental and Social Expert

Activities performed:

- (1) Define the baseline for future environmental audits of the proposed project
- (2) Identify possible impacts of the proposed project on the environment.
- (3) Predict likely changes in the environment as a result of the development.
- (4) Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- (5) Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.
- (6) Highlight environmental issues with a view to guiding policy makers, planners, stakeholders and government agencies to make environmentally and economically sustainable decisions.

The main features of the Project:

Myanmar Smelting and Refining Co., Ltd. will carry out the business of smelting and refining all non-ferrous metals like waste lead-acid batteries, lead scrap, aluminum scrap, etc. and manufacture plastic chips or granules for 100% export sale from the Republic of the Union of Myanmar.

Preparation of Initial Environmental Examination report for Private Clinic and Diagnostic Service Project

Period : October 2015 – February 2016
Client/Finance : Bumrungrad Myanmar Co., Ltd.
Dagon Township, Yangon, Myanmar
Types of Service : Initial Environmental Examination Report
Position : Environmental Expert and Field Coordinator

Activities performed:

- Identify the major issues that may arise as a result of proposed works on biophysical, socio-economic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, prepare and implement environmental monitoring plan for the subproject.

The main features of the Project:

Bumrungrad Hospital Public Co., Ltd. wishes to invest and operate an outpatient health screening and diagnostic center as well as full service imaging, lab services and referral services in Myanmar to drive downstream referrals to Bumrungrad Hospital Bangkok. The investment has been made under the Union of Myanmar Foreign Investment Law and Myanmar Company Act to implement the private clinic and diagnostic center at No. 77, Pyihtaung Su Yeiktha Street, Dagon Township, Yangon, Myanmar.

Project for Preparation of Environmental Impact Assessment for construction and operation of Hotel

Period : February 2015 – November 2015
Client/Finance : Regal Hospitality Co., Ltd.
Mingalar Mandalay, Chanmyathazi Township, Mandalay, Myanmar
Types of Service : Environmental Impact Assessment Report
Position : Environmental Expert and Field Coordinator

Activities performed:

1. Assess the project's impacts on surface run-off water
2. Assess social implications of the development within the locality, region and nationally:
 - a) Economic implications of the development.
 - b) Employment.
 - c) Livelihoods.
 - d) Demand and development of infrastructure and social amenities.
3. Develop an Environmental Management and Monitoring Plan that would mitigate the possible impacts on the environment.

The main features of the Project:

The proponent aims to construct Pullman Mandalay Hotel Project in Chanmyathazi Township, Mandalay, Myanmar. The construction works will include a high-class (Five Star), 11-storey hotel which will comprise of 358 rooms. Many facilities will include such as function room, specialty restaurant, kids' club, swimming pool, pool bar, lobby bar, spa, bakery, meeting room, etc.

Preparation of Environmental Impact Assessment report for town water supply project

Period : October 2014 – November 2015
Client/Finance : Hein Linn San Co., Ltd.
Tarchileik, Easten Shan State, Myanmar

Types of Service : Environmental Impact Assessment Report
Position : Environmental and Social Expert

Activities performed:

- (1) Define the baseline for future environmental audits of the proposed project
- (2) Identify possible impacts of the proposed project on the environment.
- (3) Predict likely changes in the environment as a result of the development.
- (4) Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- (5) Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.

The main features of the Project:

To mitigate the drinking water crisis in Tachileik Township, which has resulted from the combined effects of inadequate water supply, increased water demand, and poor management of the available water resources, Hein Linn san Mining Company Limited initiated the Water Supply Project in 20-2-2013, which will divert water from the Maesaingwe creek to city's water supply network.

Implementation of Environmental Impact Assessment report for Shoe Factory Project

Period : April 2015 – November 2015
Client/Finance : Chan's Myanmar Co., Ltd.
Local Industrial Zone, Bago, Myanmar
Types of Service : Environmental Impact Assessment Report
Position : Environmental and Social Expert

Activities performed:

- (1) Define the baseline for future environmental audits of the proposed project
- (2) Identify possible impacts of the proposed project on the environment.
- (3) Predict likely changes in the environment as a result of the development.
- (4) Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- (5) Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.

The main features of the Project:

Chen's Myanmar Footwear Industry will produce sport shoes for men, ladies and junior work boot and casual shoes.

Project for preparation of Environmental Impact Assessment report for Paint Factory

Period : March 2015 – December 2015
Client/Finance : Kansai Paint Myanmar Co., Ltd.
Shwe Pyi Thar Industrial Zone (4), Yangon, Myanmar
Types of Service : Environmental Impact Assessment Report
Position : Environmental Expert

Activities performed:

- (1) Define the baseline for future environmental audits of the proposed project
- (2) Identify possible impacts of the proposed project on the environment.
- (3) Predict likely changes in the environment as a result of the development.
- (4) Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- (5) Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.

The main features of the Project:

Kansai Paint Myanmar Company Limited is a Joint Venture Company, formed by Kansai Paint Co., Ltd. (Japan), Kansai Coatings Malaysia (KCM) and Hnin Thazin Oo Co., Ltd. (Myanmar). The KCM Company has been engaged in manufacture of paints for twenty five years and its product "Kansai Paint" has been regarded as the best quality paint around the world. The company proposes to establish a production facility for high quality solvent-based and water-based paints. Kansai Paint manufacturing industry proposes to use the most modern machinery of up-to-date technology at all its production lines.

Implementation of Initial Environmental Examination report for construction and operation of garment factory project

Period : October 2014 – March 2015
Client/Finance : Kojima Iryo Myanmar Co., Ltd.
Okapho Township, Yangon, Myanmar
Types of Service: Initial Environmental Examination Report
Position : Environmental and Social Expert

Activities performed:

- Identify the major issues that may arise as a result of proposed works on biophysical, socio-economic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, prepare and implement environmental monitoring plan for the subproject.

The main features of the Project:

Kojima Iryo Myanmar Company Limited (KIMCL) is a joint venture company formed by incorporating “Kojima Iryo Co., Ltd. (Japan)” in the equity ratio of 85% and “JMKS Co., Ltd. (Myanmar)” in the equity ratio of 15% on the basis of material and cash contribution. KIMCL Garment factory will manufacture garments on CMP basis. The main products and their annual productions are as follows: (1) Blouson (2) Shirts (3) Pants (4) Vest (5) Jacket (6) Skirt (7) Coat (8) Blouse.

Implementation of Environmental Impact Assessment report for construction and operation of beer factory

Period : October 2014 – May 2015
Client/Finance : Mandalay Golden Friend Mining Co., Ltd.
Paleik Township, Mandalay Region, Myanmar
Types of Service: Environmental Impact Assessment
Position : Environmental Expert

Activities performed:

- Define the baseline for future environmental audits of the proposed project
- Identify possible impacts of the proposed project on the environment.
- Predict likely changes in the environment as a result of the development.
- Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.

The main features of the Project:

Mandalay Golden Friend Mining Co., Ltd. proposes Brewery Manufacturing Project in Sintgaing Township, Mandalay Region. The brewery incorporates the following key areas:

- beer making areas, which are process areas, and include raw materials receipt and storage (primarily malt and grain), a grain mill, the brew house where wort is made, yeast storage propagation plant, tanks for fermentation of the wort and maturation of the beer, and beer processing areas where filtration takes place;
- Packaging areas including the Beer Tanks that store the filtered beer, and supply the canning, bottling and kegging lines. Finished products are warehoused on site before loading for delivery;
- Utilities area that includes a heating plant consisting of coal fired or biomass boilers, refrigeration plant consisting of a combination of ammonia and glycol cooling systems, CO2 recovery plant, compressed air plant and a number of electricity substations. Most of the utilities services are provided through the utilities building; and
- Auxiliary functions including laboratory, canteen, general store, offices, workshops, administrative areas and visitor facilities.
- The production capacity of the first phase is 30,000 tons of beer per annum, and will be increase to 50,000 tons per annum in future.

Project for preparation of Environmental Management Plan report for Processing and refining of value added pulses and beans

Period : December 2014 – March 2015
Client/Finance : Mandalay Golden Friend Mining Co., Ltd.
No.124, Wetmasutt Wun Htaut Street, Industrial Zone (4), Hlaing Tharyar Township, Yangon Region, Myanmar
Types of Service: Environmental Management Plan
Position : Environmental Expert

Activities performed:

- To identify, access, analyze and evaluate the potential positive and negative impacts of the project on the biophysical, cultural and socioeconomic environment;
- To recommend appropriate environmental management measures for mitigation of negative impacts emanating from the project;
- To propose mitigation measures of potential negative impacts and environmental disruption by the project activities;
- To propose EMP compliance monitoring and auditing.

The main features of the Project:

In Myanmar, many varieties of pulses are used as major food habit in daily life. The major pulses are mung bean, broad bean, kidney bean, chick bean, small red bean, butter bean, cow bean, pigeon pea and lentil.

Most of the pulses are consumed in dehusked and split form. Thus processing of pulses assumes a lot of importance. Pulses processing industry helps in processing the raw grain legumes/ pulses into edible form.

Project for preparation of Environmental Management Plan for construction and operation of garment factory

Period : December 2014 – February 2015
Client/Finance : Natural Garment Co., Ltd.
No. 507 & 508, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon Region, Myanmar.
Types of Service: Environmental Management Plan
Position : Environmental Expert

Activities performed:

To offer a document which sets forth all the measures identified to prevent, minimize, mitigate and compensate for the potential negative impacts derived from the construction and operation phases of the proposed industry, as well as to enhance the positive impacts, To design the mechanisms for accident prevention and response, and for contingencies which may arrive during the execution and operation of the Project.

The main features of the Project:

For the construction and operation of Garment factory, the key components of the development will include:

- Rehabilitation of the main factory building and welfare building;
- Installation of the equipment and machinery for the process line;
- Installation of the testing laboratory; and
- Dormitories, canteen, clinic, etc. for employees.

Preparation of Project Proposal (Environmental Screening) for Dry Port Project

Period : November 2014 – January 2015
Client/Finance : KLN (Singapore) Pte. Ltd.
Myitnge, Mandalay Region, Myanmar.
Types of Service: Preparation of Project Proposal (Environmental Screening)
Position : Environmental and Social Expert

Activities performed:

Responsible for the preparation of operational checklist for Environmental Study and supervised preliminary field visit. Collected primary and secondary data and also facilitate public consultation meeting. Moreover, preparation of scoping report and Term of References for the project.

The main features of the Project:

The volume of international trade and freight transport in Myanmar has witnessed fast growth in recent decades. The resulting environmental impact of freight transport operations has become a major cause of concern. The busiest railway route in Myanmar is between Yangon and Mandalay, with estimate of 80 roundtrip freight train services monthly and containers discharged in Myanmar grew by 20% annually. KLN (Singapore) Pte. Ltd. will submit a proposal for the project of construction and operation of Dry Port in Myitnge, Amarapura Township, Mandalay Region to Ministry of Railways Transportation.

Preparation of Project Proposal (Environmental Screening) for Dry Port Project

Period : November 2014 – January 2015
Client/Finance : KLN (Singapore) Pte. Ltd.
Ywar Thar Gyi, Yangon Region, Myanmar.
Types of Service: Preparation of Project Proposal (Environmental Screening)
Position : Environmental and Social Expert

Activities performed:

Responsible for the preparation of operational checklist for Environmental Study and supervised preliminary field visit. Collected primary and secondary data and also facilitate public consultation meeting. Moreover, preparation of scoping report and Term of References for the project.

The main features of the Project:

The volume of international trade and freight transport in Myanmar has witnessed fast growth in recent decades. The resulting environmental impact of freight transport operations has become a major cause of concern. The busiest railway route in Myanmar is between Yangon and Mandalay, with estimate of 80 roundtrip freight train services monthly and containers discharged in Myanmar grew by 20% annually. KLN (Singapore) Pte. Ltd. will submit a proposal for the project of construction and operation of Dry Port in Myitnge, Amarapura Township, Mandalay Region to Ministry of Railways Transportation.

Implementation of Initial Environmental Examination report for construction and operation of sawing mill

Period : November 2014 – February 2015

Client/Finance : Asia Win Co., Ltd.
Dagon Myo Thit Seikkan Township, Yangon, Myanmar.
Types of Service: Initial Environmental Examination
Position : Environmental Expert

Activities performed:

The activities were to:

- Identify and analyze the impacts of the proposed project on the natural environment
- Evaluate impacts of the project on the socio-cultural environment
- Assess impacts on infrastructure and social amenities (sewerage, water supply, road network, electricity)
- Assess and predict any effects on any sensitive ecosystems
- Formulate an Environmental Management Plan (EMP).

The main features of the Project:

Myanmar exported about 3 million tonnes of wood worth US\$1 billion in the 2013–2014 fiscal year, mostly to China, Thailand and India. Myanmar instituted rules on April 1, 2014 banning the export of unprocessed timber in a bid to develop a local sawmill industry. The main aim of the project is to promote growth and sustainable development of the Yangon Region of Myanmar by putting up a factory to utilize natural resource of timber and convert the same into value added wood products.

Preparation of Environmental Impact Assessment Report for Manufacturing and marketing of oral and personal care products

Period : November 2014 – February 2015
Client/Finance : Asia Win Co., Ltd.
Dagon Myo Thit Seikkan Township, Yangon, Myanmar.
Types of Service: Environmental Impact Assessment
Position : Environmental Expert

Activities performed:

- Define the baseline for future environmental audits of the proposed project
- Identify possible impacts of the proposed project on the environment.
- Predict likely changes in the environment as a result of the development.
- Propose mitigation measures for the significant negative impacts of the proposed project on the environment.
- Generate baseline data for evaluating and monitoring impact, including mitigation measures during the project cycle.

The main features of the Project:

Manufacturing and marketing of oral and personal care products such as A21 Beauty Soap, Procure soap, Best-T Toothpaste and T Care Toothpaste.

Implementation of Initial Environmental Examination report for the operation of Mandalay International Airport

Period : August 2014 – November 2014
Client/Finance : MC-Jalux Airport Services Co., Ltd.
Tadar U, Mandalay, Myanmar.
Types of Service: Initial Environmental Examination
Position : Environmental and Social Expert

Activities performed:

- To establish baseline data of the proposed work area,
- To identify the major issues that may arise as a result of the proposed project on bio-physical, socioeconomic and cultural environment of the project area,
- To recommend practical and site specific environmental mitigation and enhancement measures, prepare and implement an environmental monitoring plan for the sub-project

The main features of the Project:

In 2012, Myanmar government prepared a plan to develop an aviation and logistics hub enhancing commercial value and image for the Mandalay International Airport by introducing the public sector in aviation services and facilities.

With the aim of rehabilitating a second international airport in the country and improving direct international connectivity to Myanmar, the Government invited a tender to upgrade the airport as per the new design. MC-JALUX Airport Services Co., Ltd. gets a chance to rehabilitate the existing international airport.

The project will construct a new landside passenger terminal building, transformer, fire protection system, airport security, etc., which supplements the air side runway, taxiway, apron, concrete pavement and safety area (landing strip and shoulder).

The project included civil works for the new building, purchase of equipment and other support infrastructure for the airport, such as, instrument landing system to minimize air pollution and mitigate impact through the reduction of particulate matter emissions by

promoting the operation of aviation services in the site area.

Project for the preparation of Initial Environmental Examination report for repairing and assembling of tubular goods

Period : July 2014 – October 2014
Client/Finance : Oil Tech Myanmar Ltd.
Industrial Zone (1), Dagon Seikkan Township, Yangon, Myanmar.
Types of Service: Initial Environmental Examination
Position : Environmental and Social Expert

Activities performed:

The activities were to:

- Identify and analyze the impacts of the proposed project on the natural environment
- Evaluate impacts of the project on the socio-cultural environment
- Assess impacts on infrastructure and social amenities (sewerage, water supply, road network, electricity)
- Assess and predict any effects on any sensitive ecosystems
- Formulate an Environmental Management Plan (EMP).

The main features of the Project:

Main project features: Oil Tech (Myanmar) Limited is a joint venture limited formed by Oil Tech Holding (2014) Private Limited and Zillion Zest Company Limited. Oil Tech (Myanmar) Limited has proposed to implement “Oil Country Tubular Goods, Repairing and Assembling” project in Dagon Seikkan Industrial Zone (1), so as to support the main objectives of the economic development plan, or business which cannot be afforded and which are financially and technologically insufficient by the Union of Myanmar and its citizen as well as to provide the business of repairing and assembling involving large capital.

Repair Business

- Drill pipe
- Drill collars
- Heavy weight drill pipe
- Cross over subs

Other Accessories

- Nipple
- Pup joint
- Drill collar
- Cross over subs

Premium Threading

- NOV
- FOX
- VAM
- Others

Environmental Impact Assessment report preparation for construction and operation of Hotel project

Period : July 2014 – October 2014
Client/Finance : Amara Hotel Co., Ltd.
Yarza Htarne Road, Nay Pyi Taw, Myanmar.
Types of Service: Environmental Impact Assessment
Position : Environmental Expert

Activities performed:

1. Assess the project’s impacts on surface run-off water
2. Assess social implications of the development within the locality, region and nationally:
 - a) Economic implications of the development.
 - b) Employment.
 - c) Livelihoods.
 - d) Demand and development of infrastructure and social amenities.
3. Develop an Environmental Management and Monitoring Plan that would mitigate the possible impacts on the environment.

The main features of the Project:

GRAND AMARA HOTEL in Nay Pyi Taw, Myanmar will be constructed as follows:

- 1 one-storey building with 54 number of rooms on Plot No. 5 A,
- 1 one-storey building with 61 number of rooms on Plot No. 5 B,
- 2 two-storey buildings with 50 number of rooms on Plot No.6 A,
- 2 two-storey buildings with 50 number of rooms on Plot No.6 B

Project for Environmental Impact Assessment report preparation for construction and operation of cement plant

Period : May 2014 – November 2014
Client/Finance : Myanmar-Korea Cement Group Co., Ltd.
Kyaikmayaw Township, Mawlamyaing Region, Mon State, Myanmar.
Types of Service: Environmental Impact Assessment
Position : Environmental Expert

Activities performed:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on biophysical, socioeconomic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan

The main features of the Project:

The proposed project will be situated in Plot No.578, Niton Village Tract, Kyaikmayaw Township, Mawlamyaing, Mon State and comprises of approx. 450 m x 800 m (90 acres). Cement plant owned by Myanmar-Korea Cement Group Co., Ltd. has proposed to manufacture 3000 TPD at this site in Hnidon Hill area. According to manufacturing process of Cement Plant proposed by Myanmar-Korea Cement Group Co., Ltd. dry process will be used. It should be assumed to overcome the environmental impacts due to the 98% of emission control.

Implementation of Initial Environmental Examination report for construction and operation of food packing factory project

Period : March 2014 – June 2014
Client/Finance : North East Gate Fruit Co., Ltd.
Industrial Zone, Muse, Northern Shan State, Myanmar.
Types of Service: Initial Environmental Examination
Position : Environmental and Social Expert

Activities performed:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on biophysical, socioeconomic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan

The main features of the Project:

For “Fruit Packaging Products Production Project” the following components included:

- Expansion of the factory building ; and
- Installation of the equipment for the additional process line;

On site activities will involve the production of:

- protective paper bags,
- plastic foam mesh sleeves,
- plastic baskets for fruits and
- plastic rolls

Preparation of Initial Environmental Examination report for construction and operation of Hotel Project

Period : April 2014 – June 2014
Client/Finance : Sein Hinn Co., Ltd.
Yankin, Yangon, Myanmar.
Types of Service: Initial Environmental Examination
Position : Environmental and Social Expert

Activities performed:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on biophysical, socioeconomic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan

The main features of the Project:

Sein Hinn Co., Ltd. will carry out construction and operation of the proposed hotel project on Yankin Township, Yangon, Myanmar.

Preparation of Initial Environmental Examination report for construction and operation of Hotel Project

Period : April 2014 – June 2014

Client/Finance : Sein Hinn Co., Ltd.
Taungoo, Myanmar.

Types of Service: Initial Environmental Examination

Position : Environmental and Social Expert

Activities performed:

- Establish baseline data of the proposed work area,
- Identify major issues that may arise as a result of the proposed works on biophysical, socioeconomic and cultural environment of the project area,
- Recommend practical and site specific environmental mitigation and enhancement measures, and prepare and implement environmental management and monitoring plan

The main features of the Project:

Sein Hinn Co., Ltd. will carry out construction and operation of the proposed hotel project on Taungoo, Myanmar.

6. Certification:

I, the undersigned, certify to the best of my knowledge and belief that this CV correctly describes my qualifications and my experience;

I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.



Date: 09/ 10 / 2019
Day / Month / Year

[Signature of expert or authorized representative of the firm]

Full Name of authorized representative:

Curriculum Vitae (CV) for Proposed Key Experts

1. General:

Position Title and No.: Environmental and Social Expert

Name of Key Expert: Aye Aye Aung (Ms.)

Name of the Firm proposing the Key Expert: Myanmar Koei International Ltd.

Date of Birth: 16th August 1981 **Nationality:** Myanmar

Country of Citizenship/Residence: Myanmar

2. Education:

Bachelor of Engineering, (Chemical), Yangon Technology University, Myanmar (2005),
 Master of Science, (Environmental Engineering, National University of Singapore) (2007)
 Certificate in Environmental Control Officer's Course, Singapore Environment Institute, Singapore
 Certificate in Building Construction Supervisor Safety Course, Hong Tech Consultant, Singapore
 Certificate in Earth Control Measure for Construction Site Personnel Course, Singapore Environment Institute, Singapore
 Certificate in Green Mark Manager Course, BCA Academy, Singapore
 Certificate in Risk Management Course, Hong Tech Consultant, Singapore
 Training Workshop, Technical Forum and Site Visit for NK Group Companies, NK Head Quarter (11-15 November 2019).

3. Employment Record relevant to the assignment:

| <i>Period</i> | <i>Employing organization and your title/ position</i> | <i>Country</i> | <i>Summary of activities performed relevant to the Assignment</i> |
|--|--|----------------|--|
| <More than 12 years professional experience since 2008> | | | |
| Oct 2016 to present | Myanmar Koei International Ltd. Environmental and Social Expert | Myanmar | Provides technical expertise and support in the preparation of IEE and EIA reports for various infrastructure projects of the company; provides technical assistance in the development and implementation of environmental management, environmental monitoring, and other environmental related procedures and standard operation processes in Thilawa SEZ; coordinates and prepares data collection; carries out baseline survey; organizes meetings with clients and project stakeholders; and translates project reports from English to Burmese and vice versa. <u>Contact Information for reference:</u> Mr. Kazuhisa Iwami, Managing Director email: iwami-kz@n-koei.co.jp |
| May 2013 to Jan 2016 | JGC Singapore Pte Ltd. Piping Material Engineer | Singapore | Preparation of bill of material and bill of quantities, technical datasheets for bulk and special piping components; provided input on technical bid evaluation of vendors' quotations for cost estimation of various projects. <u>Contact Information for Reference:</u> Ong Moin Lian, Piping Manager JGC Singapore Pte Ltd. email: moinlian.ong@jgc.com.sg |
| July 2012- Apr 2013 | POH LIAN Construction Pte. Ltd. Environmental Control Officer | Singapore | Conducted environmental monitoring and environmental control audit /investigations and prepared Environmental Control Report. Promoted environmental public health at work site and conducted training on environmental issues. Organized and coordinated environmental control committee meetings and provided technical advice on issues. Maintained mandatory records and other documentation as may be required by regulatory authorities. Ensured contractor compliance with the Code of Practice of PUB, LTA and NEA. |

Dec 2009- Jul 2012 HONG TECH Consultant Pte. Ltd. Singapore
 Environmental Control Officer Conducted environmental monitoring and environmental control audit / investigations and prepared Environmental Control Report. Promoted environmental public health at work site and conducted training on environmental issues. Organized and coordinated environmental control committee meetings and provided technical advice on issues. Maintained mandatory records and other documentation as may be required by regulatory authorities. Ensured contractor compliance with the Code of Practice of PUB, LTA and NEA.

Contact Information for Reference:
 Low Hong Teck, Managing Director
 HONG TECH Consultant Pte. Ltd.
 email: hongtech@singnet.com.sg

Jul 2008 - Nov 2009 KAY LIM Construction & Trading Pte. Ltd. Singapore
 Environmental Control Officer Conducted environmental control audit / investigations and prepared Environmental Control Report. Promoted environmental public health at work site and conducted training on environmental issues. Organized and coordinated environmental control committee meetings. Maintained mandatory records and other documentation as may be required by regulatory authorities. Ensured contractor compliance with the Code of Practice of PUB, LTA and NEA.

Contact Information for Reference:
 Clara, HR Manager
 Kay Lim Construction and Trading Pte Ltd.
 email: kaylim@singnet.com.sg

4. Membership in Professional Associations and Publications:

- Member at NEA (Singapore)
- Registered Environmental Control Officer No.: S1573 X

5. Language Skills:

| | <i>Speaking</i> | <i>Reading</i> | <i>Writing</i> |
|---------|-----------------|----------------|----------------|
| English | Excellent | Excellent | Excellent |
| Myanmar | Native | Native | Native |

6. Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the

Assigned Tasks:

Support for Implementation of Environmental Management and Monitoring Service for operation of Yangon Port in Thilawa Area

| | |
|-----------------------|---|
| Period | : Jan 2020 – Present (intermittent) |
| Client/Finance | : Private |
| Type of Service | : Environmental Management and Monitoring |
| Position | : Environmental and Social Expert |
| Main project features | : Port Operation in Thilawa Area |

Responsible for implementation and supporting of the environmental monitoring service for water quality, air quality, noise and vibration level monitoring. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports for Port operation of Yangon Port.

Environmental Management Plan Study for Port Operation of Myanmar International Terminals Thilawa (MITT) in Thilawa Area

| | |
|-----------------------|-------------------------------------|
| Period | : Dec 2019 – Present (intermittent) |
| Client/Finance | : Private |
| Type of Service | : EMP |
| Position | : Environmental and Social Expert |
| Main project features | : Port Operation in Thilawa Area |

Responsible for supporting of the environmental monitoring service for water quality, air quality, noise and vibration level monitoring. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports for Port operation of MITT.

Environmental Management Plan Study for Operation of Beer Production Factory

| | |
|-----------------------|---|
| Period | : July 2019 – Present (intermittent) |
| Client/Finance | : Private |
| Type of Service | : EMP |
| Position | : Environmental and Social Expert |
| Main project features | : Manufacturing, marketing, distribution and sale of beer and stout with different brands |

Responsible for supporting of the environmental monitoring service for water quality, air quality, noise and vibration level monitoring. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports and arranging Public consultation Meeting for Operation of Beer Production Factory.

Environmental Monitoring Service for Greater Yangon Water Supply Improvement Project

| | |
|-----------------------|--------------------------------------|
| Period | : Apr 2019 – Present (intermittent) |
| Client/Finance | : Private |
| Type of Service | : Monitoring & EIA |
| Position | : Environmental and Social Expert |
| Main project features | : Water Supply Improvement in Yangon |

Responsible for supporting of the environmental monitoring service for water quality, air quality, noise and vibration level monitoring. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports for Greater Yangon Water Supply Improvement Project.

Environmental Monitoring Service for Drainage Infrastructure Improvement for the 6 CBD Township of Yangon

| | |
|-----------------------|--|
| Period | : Apr 2019 – Mar 2019 (intermittent) |
| Client/Finance | : Private |
| Type of Service | : Monitoring |
| Position | : Environmental and Social Expert |
| Main project features | : Drainage Infrastructure Improvement for the 6 CBD Township of Yangon |

Responsible for supporting of the environmental monitoring service for water quality, air quality, noise and vibration level monitoring. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports for Drainage Infrastructure Improvement for the 6 CBD Township of Yangon.

ESIA Study and Environmental Baseline Study for Yangon AMATA Smart & Eco City in Myanmar

| | |
|-----------------------|-------------------------------------|
| Period | : Oct 2018 – Present (intermittent) |
| Client/Finance | : Private |
| Type of Service | : Monitoring & EIA |
| Position | : Environmental and Social Expert |
| Main project features | : Implementation of Industrial Zone |

Responsible for supporting of the environmental monitoring service for water quality and air quality monitoring. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports.

EIA Study on Service Apartment Development Project in Tamwe Township Yangon, Myanmar

Period : Aug 2018- Dec 2018 (intermittent)
Client/Finance : Private
Type of Service : EIA
Position : Environmental and Social Expert
Main Features of the Project : Construction and operation of Service Apartment Development in Tamwe Township

Responsible for the preparation of EIA Report and to provide the current environmental situation in and around project area.

EMP Study on Asbestos Management for the Renovation of Training Workshops for JICA Project for Quality Improvement in Technical Vocational Training and Education (TVET) Program

Period : Aug 2018- March 2019
Client/Finance : JICA
Type of Service : EMP
Position : Assistant Engineer (Health and Safety Expert)
Main Features of the Project : Renovation of Training Workshop Building of Japan Myanmar Aung San Vocational Institute (JMASVTI) for Quality Improvement in TVET Program in cooperation with the Ministry of Education (MOE) and JICA

Responsible for the drafting Environmental Management Plan (EMP) Report and Environmental Monitoring Plan (EMoP) and to provide the routine advice and the impact assessment of Asbestos on Environmental, Safety & Health issues

Main Features of the Project:

EIA Study on Expansion of Yangon Port in Thilawa Area Phase II

Period : Jul 2018- Feb 2019
Client/Finance : MPA
Type of Service : EIA
Position : Environmental and Social Expert
Main Features of the Project : Construction and Operation of Expansion of Yangon Port in Thilawa Area Phase II

Responsible for the Preparation of IEE Report and to provide the current environmental situation in and around project area

EMP Study on Asbestos Management for the Renovation of Training Facilities for JICA Project for Human Resources Development of Medical Engineering

Period : Jun 2018- Dec 2018
Client/Finance : JICA
Type of Service : EMP
Position : Assistant Engineer (Health and Safety Expert)
Main Features of the Project : Renovation of Training Facility and Dormitory (former CMSD Building) for Human Resource Development for Medical Engineering in cooperation with the Ministry of Health and Sports and JICA.

Responsible for the drafting Environmental Management Plan (EMP) Report and Environmental Monitoring Plan (EMoP) and to provide the routine advice and the impact assessment of Asbestos on Environmental, Safety & Health issues.

Environmental Monitoring for Myanmar Japan Thilawa Development Limited

Period : Oct 2016- Present
Client/Finance : Myanmar Japan Thilawa Development Limited (MJTD)
Type of Service : Monitoring
Position : Environmental and Social Expert
Main Features of the Project : Construction and operation of Thilawa Special Economic Zone (Zone A and Zone B).

Carries out environmental field survey on air quality, water quality, noise level, vibration level, and water flow rate. Prepares environmental monitoring report and provides data analysis based on environmental rules and regulations in Myanmar as well as the Standard Operation Procedures (SOPs) for Thilawa SEZ.

Initial Environmental Examination (IEE) Report for Industrial Gas Manufacturing Factory in Thilawa Special Economic Zone

Period : May 2017- Nov 2017
Client/Finance : Private
Type of Service : IEE
Position : Environmental and Social Expert
Main Features of the Project : Manufacturing of Industrial Gas

Carried out baseline data collection and prepared IEE report on key environmental impacts such as air quality, wastewater discharge, hazardous and chemical usage, occupational health and safety, and emergency hazards based on the National Environmental Quality Emission Guidelines (NEQEG, 2015) and the General Environmental, Health, and Safety (EHS) Guidelines of International Finance Cooperation (IFC). Arranged and organized public disclosure and public consultation meetings.

Consulting Service on Environmental Study for Development of Serviced Apartment in Yangon

Period : August 2017- Nov 2017
Client/Finance : Private
Type of Service : Consulting
Position : Environmental and Social Expert
Main Features of the Project : Construction of Service apartment.

Conducted site investigation and collected baseline data impacted by the proposed development project such as air pollution, wastewater discharge, solid waste, hazardous and chemical handling, water use, traffic management etc. Assisted in the preparation of EMP in accordance with Myanmar EIA Procedures enacted by the Ministry of Natural Resources and Environmental Conservation (MONREC) in 2015.

Environmental Monitoring for Solid Waste Management Facilities in Thilawa Special Economic Zone

Period : Feb 2017- Mar 2017
Client/Finance : Private
Type of Service : Monitoring
Position : Environmental and Social Expert
Main Features of the Project : Operation of Solid Waste Management Facilities in Thilawa Special Economic Zone.

Carried out baseline environmental survey including environmental monitoring on noise and vibration levels. Coordinated meetings with stakeholders' and assisted in the preparation of EIA, EMP and EMoP reports. Translated project reports/documents from English to Burmese.

Environmental Monitoring for Operation of Cement Terminal Factory in Thilawa Special Economic Zone

Period : Feb 2017-Nov 2017
Client/Finance : Private
Type of Service : Monitoring
Position : Environmental and Social Expert
Main Features of the Project : Operation of Cement Terminal Factory in Thilawa Special Economic Zone.

Conducted site survey on potential environmental pollution controls, prepared environmental monitoring report, analyzed monitoring data, and provided technical assistance on the preparation of EMP based on environmental rules and regulations in Myanmar as well as the Standard Operation Procedures (SOPs) for Thilawa SEZ.

Environmental Monitoring for Kyaikkasan Development Project

Period : Feb 2017-Apr 2017
Client/Finance : Private
Type of Service : Monitoring
Position : Environmental and Social Expert
Main Features of the Project : Development of Kyaikkasan Ground

Conducted site investigation for potential environmental pollution issues (e.g., water pollution, soil contamination, noise and vibration) of the proposed project, prepared environmental monitoring report, analyzed monitoring data and recommended mitigation measures in compliance with Myanmar EIA Procedures enacted by the Ministry of Natural Resources and Environmental Conservation (MONREC) in 2015.

SMDS Rejuvenation Project

Period : May 2013 – Jan 2016
Client/Finance : Shell MDS (M) Sdn. Bhd.
Type of Service : Consulting
Position : Piping Material Engineer
Main Features of the Project : Engineering, Procurement and Construction for SMDS Rejuvenation Project (Detail engineering for SMDS plant to continue to operate reliably for the next 20 years)

Responsible for preparation of bill of material and bill of quantities (BOQ), technical datasheets for bulk and special piping components, and technical bid evaluation of vendors' quotations for cost estimation of the project. Performed design analysis and calculations according to project requirements and determined construction costs and material estimates based on civil designs.

SGP GF6 Blending Project

Period : Jan 2015 – Jan 2016
Client/Finance : Infineum Singapore Pte Ltd
Type of Service : Engineering, Procurement and Construction
Position : Piping Material Engineer
Main Features of the Project : Engineering, Procurement and Construction for SGP GF6 Blending Project (To Support the manufacturing and supplying of new GF6 formulation products)

Responsible for preparation of bill of material and bill of quantities (BOQ), technical datasheets for bulk and special piping components, and technical bid evaluation of vendors' quotations for cost estimation of the project. Performed design analysis and calculations according to project requirements and determined construction costs and material estimates based on civil designs.

H2O Condominium at Sengkang West Ave/ Fernvale Link

Period : Jul 2012 – Apr 2013
Client/Finance : POH LIAN Construction Pte Ltd (Singapore)
Type of Service : Consulting
Position : Environmental Control Officer
Main Features of the Project : Construction of Condominium

Conducted environmental monitoring and environmental control audit / investigations and prepared Environmental Control Report. Promoted environmental public health at work site and conducted training on environmental issues. Organized and coordinated environmental control committee meetings and provided technical advice on issues. Maintained mandatory records and other documentation as may be required by regulatory authorities. Ensured contractor compliance with the Code of Practice of PUB, LTA

Sentosa Gateway Tunnel Project (ER2965) (Singapore)

Period : Dec 2010 – Jul 2012
Client/Finance : Sato Kogyo (S) Pte Ltd (Singapore)
Type of Service : Consulting
Position : Environmental Control Officer
Main Features of the Project : Construction of Tunnel from Sentosa Gateway to Telokblagah road

Conducted environmental monitoring and environmental control audit / investigations and prepared Environmental Control Report. Promoted environmental public health at work site and conducted training on environmental issues. Organized and coordinated environmental control committee meetings and provided technical advice on issues. Maintained mandatory records and other documentation as may be required by regulatory authorities. Ensured contractor compliance with the Code of Practice of PUB, LTA and NEA.

BAXTER Factory Extension Project (Singapore)

Period : Dec 2009 – Nov 2010
Client/Finance : Sato Kogyo (S) Pte Ltd (Singapore)
Type of Service : Consulting
Position : Environmental Control Officer
Main Features of the Project : Construction and extension of Baxter factory

Conducted environmental control audit / investigations and prepared Environmental Control Report. Promoted environmental public health at work site and conducted training on environmental issues. Organized and coordinated environmental control committee meetings. Maintained mandatory records and other documentation as may be required by regulatory authorities. Ensured contractor compliance with the Code of Practice of PUB, LTA and NEA.

(HDB-LUPC55) Lift Upgrading Programme (Singapore)

Period : Jul 2008 – Nov 2009
Client/Finance : Kay Lim Construction & Trading Pte Ltd (Singapore)
Type of Service : Consulting
Position : Environmental Control Officer
Main Features of the Project : Lift upgrading Programme at HDB Blocks

Conducted environmental control audit / investigations and prepared Environmental Control Report. Promoted environmental public health at work site and conducted training on environmental issues. Organized and coordinated environmental control committee meetings. Maintained mandatory records and other documentation as may be required by regulatory authorities. Ensured contractor compliance with the Code of Practice of PUB, LTA and NEA.

7. Certification:

I, the undersigned, certify to the best of my knowledge and belief that this CV correctly describes my qualifications and my experience; I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: 24/1/2020



[Signature of expert or authorized representative of the firm]
Full Name of expert or authorized
representative: AYE AYE AUNG

Day/Month/Year

Curriculum Vitae (CV) for Proposed Key Experts

1. General:

| | | | |
|---|--|---------------------|---------|
| Position Title and No.: | Environmental Expert and Chemical Engineer | | |
| Name of Key Expert: | Myat Witt Yee (Ms.) | | |
| Name of the Firm proposing the Key Expert: | Myanmar Koei International Ltd. | | |
| Date of Birth: | 2 nd March 1989 | Nationality: | Myanmar |
| Country of Citizenship/Residence: | Myanmar | | |

2. Education:

Diploma in Geographic Information System PGDGIS (Dagon University) (2018)
Diploma in Development Studies Programme (Yangon Institute of Economics) (2014)
Diploma in Business Law (Yangon University) (2014)
Bachelor of Engineering (Chemical) (Thanlyin Technology University) (2011)
Certification of Basic Course in Chemical Storage and Handling (Myanmar Chemical Industries Association, Myanmar) (2017)

3. Employment Record relevant to the assignment:

| <i>Period</i> | <i>Employing organization and your title/ position</i> | <i>Country</i> | <i>Summary of activities performed relevant to the Assignment</i> |
|----------------------|---|----------------|--|
| Apr., 2017- Present | Myanmar Koei International Ltd. Environmental Expert and Chemical Engineer | Myanmar | Responsible for preparation of environmental monitoring services and reports, provides technical expertise and support in the preparation of EMP, IEE and EIA reports for various infrastructure projects of the company, provides technical assistance in the development and implementation of environmental management <u>Contact Information for reference:</u> Mr. Kazuhisa Iwami, Managing Director email: iwami-kz@n-koei.co.jp |
| Nov., 2016- Mar 2017 | Myanmar Koei International Ltd. Environmental Expert and Chemical Engineer | Myanmar | Responsible for the support establishment of Environmental and social management system for operation of the Fertilizer Factory in Thilawa SEZ, environmental monitoring survey, preparation of monitoring data analysis and reports. <u>Contact Information for reference:</u> Mr. Kazuhisa Iwami, Managing Director email: iwami-kz@n-koei.co.jp |
| May 2015- Oct.2016 | Myanmar Pouchen Co.,Ltd. Supervisor of Laboratory Department | Myanmar | Responsible for supervising and managing the factory of Lab Department <u>Contact Information for reference:</u> Ms. Athena Wang, General Manager athena.wang@pouchen.com |
| Jan.2015- April.2015 | Pou Yuen Vietnam Co.,Ltd. Lab Technician | Vietnam | Responsible for the analysis of shoe quality and Lab procedure and method of statement for the analysis lab report <u>Contact Information for reference:</u> Ms. Amo Huang, General Manager Amo.huang@pyv.com.vn |
| Jun-2012, Dec-2014 | Yangon City Development Committee Lab Technician (Health Department) | Myanmar | Responsible for quality analysis of edible oil, food dyes and water and Lab procedure and method of statement for the analysis lab report <u>Contact Information for reference:</u> Ms. Than Than Lwin, Deputy Head of Health Department thanthanlwin@gmail.com |

4. Membership in Professional Associations and Publications: Member at Myanmar Engineering Council

5. Language Skills:

| | <i>Speaking</i> | <i>Reading</i> | <i>Writing</i> |
|---------|-----------------|----------------|----------------|
| English | Good | Good | Good |
| Myanmar | Native | Native | Native |

6. Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks:

IEE Study on Construction and Operation of Manufacturing of Pharmaceutical Product in Thilawa Special Economic Zone (Zone A) in Myanmar

| | |
|---|-----------------------------------|
| Period | : Sep 2019 – Present |
| Client/Finance | : Private |
| Type of Service | : IEE |
| Position | : Pollution Assessment Expert (1) |
| Duties Performed: Responsible for the IEE Report, the impact assessment of Social issues, Safety & Health issues. Analysis of collected information/data, writing of reports and translation of reports & documents. | |
| Main Features of the Project: The project supports construction and operation stage of manufacturing plant for Pharmaceutical Production in the Thilawa SEZ Zone A for supplying to the local market. | |

EIA Study on Construction and Operation of Manufacturing of Metallic Coated Steel Strip and Painted Steel Strip in Thilawa Special Economic Zone (Zone B) in Myanmar

| | |
|---|--------------------------------|
| Period | : Aug 2019 – Oct 2019 |
| Client/Finance | : Private |
| Type of Service | : EIA |
| Position | : Pollution Control Expert (2) |
| Duties Performed: Responsible for the EIA Report, the impact assessment of Social issues, Safety & Health issues. Analysis of collected information/data, writing of reports and translation of reports & documents. | |
| Main Features of the Project: The project supports construction and operation stage of manufacturing of metallic coated steel strip and painted steel strip in the Thilawa SEZ Zone B for supplying to the local market. | |

IEE Study on Construction and Operation of Manufacturing of Insecticide Aerosol (Phase-1) in Thilawa Special Economic Zone (Zone A) in Myanmar

| | |
|---|--|
| Period | : Jul 2019 – Present |
| Client/Finance | : Private |
| Type of Service | : IEE |
| Position | : Pollution Assessment Expert (2) / Health and Safety Expert |
| Duties Performed: Responsible for the IEE Report, the impact assessment of Social issues, Safety & Health issues. Analysis of collected information/data, writing of reports and translation of reports & documents. | |
| Main Features of the Project: The project supports construction and operation stage of manufacturing plant for Insecticide Aerosol production and sales in the Thilawa SEZ Zone A for supplying to the local market. | |

Environmental Monitoring Service for Greater Yangon Water Supply Improvement Project

| | |
|--|--|
| Period | : Apr 2019 – Present (intermittent) |
| Client/Finance | : Private |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports | |
| Main Features of the Project: The project supports the environmental monitoring service for noise, vibration, water and air monitoring by bi-annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports for Grater Yangon Water Supply Improvement Project. | |

Environmental Monitoring Service for Drainage Infrastructure Improvement for the 6 CBD Township of Yangon

| | |
|---|--|
| Period | : Apr 2019 – Present (intermittent) |
| Client/Finance | : Private |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports | |
| Main Features of the Project: | |

The project supports the environmental monitoring service for noise, vibration and water and air monitoring by bi-annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports for Drainage Infrastructure Improvement for the 6 CBD Township of Yangon.

IEE Study on Operation for Distribution, Charging of Lead-Acid Battery in Thilawa Special Economic Zone (Zone B) in Myanmar

| | |
|-------------------------------|--|
| Period | : Jan 2019 – Present |
| Client/Finance | : Private |
| Type of Service | : IEE |
| Position | : Pollution Assessment Expert |
| Duties Performed: | Responsible for the IEE Report, the impact assessment of Social issues, Safety & Health issues. Analysis of collected information/data, writing of reports and translation of reports & documents. |
| Main Features of the Project: | The project supports operation and closure stage of manufacturing plant for Lead-Acid Battery charging, production and sales in the Thilawa SEZ Zone B for supplying to the local market. |

Environmental Baseline Survey for Yangon AMATA Smart & Eco City in Myanmar

| | |
|-------------------------------|--|
| Period | : Oct 2018 – Present (intermittent) |
| Client/Finance | : Yangon AMATA Smart & Eco City |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: | Responsible for preparation of environmental monitoring services and reports |
| Main Features of the Project: | The project supports the environmental monitoring service for water and air monitoring by bi-annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Yangon AMATA Smart & Eco City in Myanmar. |

EIA Study on Service Apartment Development Project in Tamwe Township in Yangon

| | |
|------------------------------|---|
| Period | : Aug 2018 – Dec 2019 |
| Client/Finance | : Nippon Steel Kowa Real Estate |
| Type of Service | : EIA |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: | Responsible for the preparation of EIA Report and to provide the current environmental situation in and around project area |
| Main Features of the Project | EIA study for Service Apartment Development Project in Tamwe Township in Yangon |

EMP Study on Asbestos Management for the Renovation of Training Workshops for JICA project for Quality Improvement in Technical Vocational Training and Education (TVET) Program

| | |
|-------------------------------|--|
| Period | : Aug 2018 – March 2019 |
| Client/Finance | : JICA |
| Type of Service | : EMP |
| Position | : Assistant Engineer (Field Survey and Monitoring) |
| Duties Performed: | Responsible for the drafting Environmental Management Plan (EMP) Report and Environmental Monitoring Plan (EMoP) and to provide the routine advice and the impact assessment of Asbestos on Environmental, Safety & Health issues. |
| Main Features of the Project: | Renovation of Training Workshop Building of Japan Myanmar Aung San Vocational Institute (JMASVTI) for Quality Improvement in TVET program in cooperation with the Ministry of Education (MOE) and JICA. |

IEE Study on Expansion of Yangon Port in Thilawa Area Phase II

| | |
|------------------------------|---|
| Period | : Jul 2018 – Feb 2019 |
| Client/Finance | : Myanmar Port Authority |
| Type of Service | : IEE |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: | Carried out baseline data collection and prepared IEE report on key environmental impacts such as soil quality, waste water discharge hazardous and chemical usage, and emergency hazards based on the National Environmental Quality Emission Guidelines (NEQG, 2015). |
| Main Features of the Project | IEE Study for Expansion of Yangon Port in Thilawa Area |

EMP Study on Asbestos Management for the Renovation of Training Facilities for JICA project for Human Resources Development of Medical Engineering in Yangon

| | |
|-----------------|--|
| Period | : Jun 2018 – Dec 2018 |
| Client/Finance | : JICA |
| Type of Service | : EMP |
| Position | : Assistant Engineer (Field Survey and Monitoring) |

| |
|---|
| Duties Performed: Responsible for the drafting Environmental Management Plan (EMP) Report and Environmental Monitoring Plan (EMoP) and to provide the routine advice and the impact assessment of Asbestos on Environmental, Safety & Health issues. |
| Main Features of the Project: Renovation of Training Facility and Dormitory (former CMSD Building) for Human Resource Development for Medical Engineering in cooperation with the Ministry of Health and Sports and JICA. |

Environmental Monitoring Service for Pre-Stressed High-Strength Concrete Pile Manufacturing Factory

| | |
|--|--|
| Period | : July 2018 – Present (intermittent) |
| Client/Finance | : VJP Company Limited |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports | |
| Main Features of the Project: The project supports the environmental monitoring service for water, air, noise and vibration monitoring by monthly and annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports for VJP company limited. | |

Environmental Monitoring Service for Myanmar Japan Thilawa Development Ltd. (MJTD)

| | |
|---|---|
| Period | : April 2017 – Present (intermittent) |
| Client/Finance | : Myanmar Japan Thilawa Development Ltd. (MJTD) |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports | |
| Main Features of the Project: The project supports the environmental monitoring service for water, air, noise and vibration, traffic monitoring by monthly and annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Thilawa SEZ Zone A (Operation Stage) and Zone B (Construction Stage). | |

Environmental Monitoring Service for Mandalay Brewery Factory

| | |
|--|--|
| Period | : May 2018 – Oct 2018 |
| Client/Finance | : Mandalay Brewery Factory |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports | |
| Main Features of the Project: The project supports the environmental monitoring service for water and noise monitoring. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Mandalay Brewery Factory. | |

Environmental Baseline Survey for New Brewery Factory in Mandalay

| | |
|--|--|
| Period | : May 2018 – Nov 2018 |
| Client/Finance | : New Brewery Factory |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental baseline survey and reports | |
| Main Features of the Project: The project supports the environmental baseline survey for soil, water, air, noise and vibration, traffic monitoring by bi-annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from New Brewery Factory in Mandalay. | |

Environmental Monitoring Service for Marubeni Myanmar Fertilizer Company Limited

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|--|---|
| Period | : January 2018 – to date (intermittent) |
| Client/Finance | : Marubeni Myanmar Fertilizer Company Limited |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports | |
| Main Features of the Project: The project supports the environmental monitoring service for air, noise and vibration monitoring by annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Marubeni Myanmar Fertilizer Company Limited. | |

Environmental Monitoring Service for Thilawa Cement and Building Materials Limited

| | |
|-----------------|---|
| Period | : November 2017 – April 2018 |
| Client/Finance | : Thilawa Cement and Building Materials Limited |
| Type of Service | : Monitoring |
| Position | : Environmental Expert and Chemical engineer |

| |
|---|
| Duties Performed: Responsible for preparation of environmental monitoring services and reports |
| Main Features of the Project: The project supports the environmental monitoring service for water, air, noise and vibration monitoring by annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Thilawa Cement and Building Materials Limited. |

Environmental Monitoring Service for Yojin Myanmar Cement Company Limited

| |
|--|
| Period : January 2018 – February 2018 |
| Client/Finance : Yojin Myanmar Cement Company Limited |
| Type of Service : Monitoring |
| Position : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports |
| Main Features of the Project: The project supports the environmental monitoring service for water, air, noise and vibration monitoring by annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Yojin Myanmar Cement Company Limited. |

Environmental Monitoring Service for FOSTER Electric (Thilawa) Factory (Myanmar)

| |
|---|
| Period : November 2017 – to date (intermittent) |
| Client/Finance : FOSTER Electric (Thilawa) |
| Type of Service : Monitoring |
| Position : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports |
| Main Features of the Project: The project supports the environmental monitoring service for air, noise and vibration monitoring by annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Thilawa SEZ Zone A (FOSTER Electric (Thilawa) Factory). |

Environmental Monitoring Service for Solid Waste Management Facilities in Thilawa Special Economic Zone

| |
|--|
| Period : November 2017 – to date (intermittent) |
| Client/Finance : Golden DOWA Eco-System Myanmar |
| Type of Service : Monitoring |
| Position : Environmental Expert and Chemical engineer |
| Duties Performed: Responsible for preparation of environmental monitoring services and reports |
| Main Features of the Project: The project supports the environmental monitoring service for noise and vibration monitoring by annually. This service includes the designation of monitoring points, implementation of monitoring survey, collection data and analysis, preparation of monitoring reports from Golden DOWA Eco-System Myanmar. |

Responsible for the support of establishment of Environmental and social management system for operation of the Fertilizer Factory in Thilawa SEZ (Myanmar)

| |
|--|
| Period : November 2016 – December 2017 (1 year and 2 months) |
| Client/Finance : Marubeni Myanmar Fertilizer Factory |
| Type of Service : Environmental and social management |
| Position : Environmental expert and chemical engineer |
| Duties Performed: Responsible for the support of establishment of Environmental and social management system for operation of the Marubeni Myanmar Fertilizer Factory in Thilawa SEZ, analysis Lab procedures, making Standard Operation Procedure (SOPs), training for lab staffs of fertilizer to analyze soil preparation and slag fertilizer analysis method |
| Main Features of the Project: The objective of the consulting service is supporting of establishment of the laboratory and making Standard Operation Procedure (SOPs) for using soil preparation and slag fertilizer analysis method, training for lab staffs of fertilizer to analyze soil preparation by using a simple agricultural analysis kit and slag fertilizer analysis method by using Atomic Absorption Spectroscopy, preparation MSDS summary and support to manage the laboratory. |

Responsible for supervising the shoe factory of Lab Department in Shwe Pyi Thar Industrial Zone (Myanmar)

| |
|--|
| Period : May 2015- October 2016 (18 month) |
| Client/Finance : Myanmar Pou Chen Factory |
| Type of Service : Management of Laboratory Department |
| Position : Supervisor |
| Duties Performed: Responsible for supervising the factory of Lab Department to check the quality analysis of shoe, analysis Lab procedure and method of statement for the analysis lab report, making Standard Operation Procedure (SOPs), using well Enterprise Resource Planning (ERP) system, inspection Health, Safety and Environment (HSE) and handling International Organization for Standardization (ISO) – Quality Management (9001) and Environmental Management (14001) documents for factory |
| Main Features of the Project: The objective of the supervising and managing of the laboratory department, training the lab technicians and also production staffs, making Standard Operation Procedure (SOPs), inspection of HSE for factory and controlling ISO documents for factory |

Responsible for supporting the shoe factory of Lab Department at Ho Chi Min in Vietnam

| | |
|---|---------------------------------------|
| Period | : January 2015- April 2015 (4 month) |
| Client/Finance | : Pou Yuen Vietnam Factory |
| Type of Service | : Management of Laboratory Department |
| Position | : Lab Technician |
| Duties Performed: Responsible for supporting the factory of Lab Department to check the quality analysis of shoe, analysis Lab procedure and method of statement for the analysis lab report, using well Enterprise Resource Planning (ERP) system | |
| Main Features of the Project: Responsible for supervising the factory of Lab Department to check the quality analysis of shoe, analysis Lab procedure and method of statement for the analysis lab report | |

Responsible for quality analysis of edible oil, food dyes and water test of Health Department in Yangon City Development Committee

| | |
|---|--|
| Period | : June2012 – December 2014 (31 months) |
| Client/Finance | : Yangon City Development Committee (YCDC) |
| Type of Service | : Analysis the quality of edible oil and food dyes |
| Position | : Lab Technician |
| Duties Performed: Responsible for analyzing the quality of edible oil and food dyes by using titration method, Gas Chromatography and High Performance Liquid Chromatography, inspection and collecting samples of edible oil and food at production oil factories, the market and restaurant in Yangon, making Standard Operation Procedures (SOPs) for laboratory analysis | |
| Main Features of the Project: The objective of the analysis quality of edible oil and food dyes, making approval certificate of YCDC (Health Department), analysis lab procedure and method of statement for the analysis lab report | |

7. Certification:

I, the undersigned, certify to the best of my knowledge and belief that this CV correctly describes my qualifications and my experience; I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: 27/1/2020

[Signature of expert or authorized representative of the firm]

Day / Month / Year

Full Name of expert or authorized representative:

MYAT WITT YEE

Curriculum Vitae (CV)

| | | | |
|------------------------------|--|---------------------|---------|
| 1. Proposed Position: | Environmental and Social Expert | | |
| 2. Name of Firm: | Myanmar Koei International Ltd. | | |
| 3. Name of Expert: | May Thinzar Kyaw (Ms.) | | |
| 4. Date of Birth: | 19 th May 1995 | Citizenship: | Myanmar |
| 5. Education: | (2011-2016) B.E (Port and Harbour Engineering), Myanmar Maritime University, Myanmar (2018-2019) Diploma in Geographic Information Systems (GIS), Yangon University, Myanmar (2018) Certificate in Advanced Environmental Management Course, Myanmar Engineering Society | | |
| 6. Contact details: | may.thinzar.kyaw@myanmar-koei.com maythinzarkyaw.mki@gmail.com +959 971679060/ +959 401680443 | | |

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| 7. Membership in Professional Associations and Publications: | <ul style="list-style-type: none"> ▪ Junior Member of Myanmar Engineering Society ((MES) ▪ Member of Young South East Asian Leaders Initiative (YSEALI) | | | |
| 8. Other trainings/certificates: | <ul style="list-style-type: none"> ▪ Certificate of Participation in Individual Waste Management Workshop organized by Riverbank Groomers Myanmar- YSEALI Mekong (2019) ▪ Certificate of Advanced Environmental Engineering & Management Course (Myanmar Engineering Society, MES)(2018) ▪ Certificate of Introduction to ArcGIS Pro and Living Atlas GIS Professional Course (GeoCAD Training Centre) (2018) ▪ Certificate of ArcGIS Online Maps, Apps, Collaboration Training (GIS CO.,LTD, Myanmar Branch Office) (2018) ▪ Certificate of Basic Training Course on Geographic Information Analysis System using NK-GIAS (Myanmar Koei International Ltd)(2017) ▪ Certificate of Engineer Volunteer in Technical Support Team (Bagan) (2017) ▪ Certificate of AutoCAD Intermediate course (2017) ▪ Certificate of Participation in “Myanmar-Netherlands Water Challenge Delta Acedamy-2016”Program (2016) | | | |
| 9. Countries of Work Experience: | Myanmar | | | |
| 10. Language Skills (indicate only languages in which you can work): | LANGUAGE | SPEAKING | READING | WRITING |
| | English | Excellent | Excellent | Excellent |
| | Myanmar | Native | Native | Native |
| | Japanese | Basic | Basic | Basic |

11. Year of Working Experience: 3 years

12. Employment Record:

| Period | Employing organization and your title/position. Contact information for references | Country | Summary of activities performed relevant to the Assignment |
|--------------------|--|---------|--|
| July 2017- Present | <i>Environmental and Social Expert</i> Myanmar Koei International Ltd. <i>Reference:</i> Mr. Kazuhisa IWAMI Managing Director Myanmar Koei International Ltd. iwami.kz@n-koei.jp | Myanmar | Responsible for preparation of EMP, IEE and EIA reports, peer review, site investigation, environmental studies, consultancy services, social engagement with public and government organizations, project coordination. |

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| April 2017- May 2017 | <i>Volunteer Engineer , Technical Support Team (TST), Bagan.</i> | Bagan, Myanmar | Responsible for site survey, AutoCAD Drawing of Profile and Settlement of ancient pagodas for repair and maintenance of pagodas affected by earthquake in August 2016 in Bagan. |
| May 2016- November 2016 | <i>Practical Training Student, Myanmar Maritime University (MMU)</i> | Yangon, Myanmar | Responsible for on-job site visit to ports in and around Yangon, investigation of shore line changes, numerical analysis of waves in study area, observation of transportation logistics from study area to target industrial zones, considering possible sustainable port layout plan and report preparation. |

| 13. Detailed Tasks: | 14. Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks: |
|---------------------|---|
| | <p>Name of assignment or project: <i>“Peer Reviewing Initial Environmental Examination (IEE) Study for Construction and Operation for Manufacturing of Asphalt Emulsion of Seikitokyu Myanmar Road Co., Ltd. In Thilawa SEZ Zone A ”</i></p> <p>Year: 20 Nov 2019- 27 Nov 2019</p> <p>Location: Yangon, Myanmar</p> <p>Client: Seikitokyu Myanmar Road Co., Ltd.</p> <p>Main project features: Preparation of IEE Study for “Grater Yangon Water Supply Improvement Project (Phase-2) including six packages”.</p> <p>Position held: Peer Review Member in Peer Review Unit</p> <p>Activities performed: Responsible for internal reviewing IEE Report based on EIA Procedures (2015) issued by Ministry of Natural Resources and Environmental Conservation (MONREC) and other international guidelines and practices for quality control before submission of report to the client and ministry.</p> |
| | <p>Name of assignment or project: <i>“Peer Reviewing Environmental Impact Assessment (EIA) Study for Greater Yangon Water Supply Improvement Project (Phase-II)”</i></p> <p>Year: 9 Nov 2019- 16 Nov 2019</p> <p>Location: Yangon, Myanmar</p> <p>Client: Yangon City Development Committee</p> <p>Main project features: Preparation of EIA Study for “Grater Yangon Water Supply Improvement Project (Phase-2) including six packages”.</p> <p>Position held: Peer Review Member in Peer Review Unit</p> <p>Activities performed: Responsible for internal reviewing Scoping, EIA Report based on EIA Procedures (2015) issued by Ministry of Natural Resources and Environmental Conservation (MONREC) and other international guidelines and practices for quality control before submission of report to the client and ministry.</p> |
| | <p>Name of assignment or project: <i>“Initial Environmental Examination (IEE) Study for Toyo Ink Myanmar Co., Ltd in Zone B, Thilawa SEZ”</i></p> <p>Year: April 2019- Present</p> <p>Location: Yangon, Myanmar</p> <p>Client: Toyo Ink Myanmar Co., Ltd</p> <p>Main project features: Preparation of IEE Report for Toyo Ink Myanmar Co., Ltd in Thilawa SEZ</p> <p>Position held: Junior Environmental and Social Expert</p> <p>Activities performed: Responsible for data collection, site investigation of factory in Thilawa area and similar factory in Japan, overall support and preparation of IEE report, confirmation of</p> |

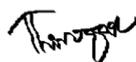
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| environmental management activities in the project site, overall arrangement for public consultation and coordination with government organizations and communities. |
| Name of assignment or project: <i>“Consultancy Service on Water Environmental Monitoring in Mandalay”</i> |
| Year: January 2019- March 2019 |
| Location: Mandalay, Myanmar |
| Client: Japan International Cooperation Agency (JICA) Myanmar Office |
| Main project features: Support for ECD Mandalay Region to strengthen the capacity for water pollution control focusing on textile factories, and Support for MCDC to clarify necessary action to deal with eutrophication status of Taung Tha Man Lake. |
| Position held: Junior Environmental and Social Expert |
| Activities performed: Responsible to support site visit for government staffs, overall arrangement of workshops and wrap-up meetings in MCDC and ECD Mandalay Region, coordination with relevant government organizations. |
| Name of assignment or project: <i>“EIA Technical Training by MOEJ”</i> |
| Year: December 2018- Present |
| Location: Myanmar |
| Client: Ministry of Environment, Japan (MOEJ) |
| Main project features: Capacity Development on Technical Skill for Environmental Impact Assessment (Theme: Pollution Control 1) |
| Position held: Junior Environmental and Social Expert/ Coordinator |
| Activities performed: Responsible to support EIA technical training, interpretation in the training, necessary arrangement and coordination with government organizations. |
| Name of assignment or project: <i>“Preliminary Survey for Development of Solid Waste Management Master Plan for Greater Yangon Area by MOEJ (Phase I)”</i> |
| Year: January 2019- March 2019 |
| Location: Myanmar |
| Client: Ministry of Environment, Japan (MOEJ) |
| Main project features: Preliminary survey for the solid waste management master plan for Yangon area to be developed in near future, with the objectives of improvement of current solid waste management situation in Yangon area and international cooperation through the provision of Japanese technologies and experiences in the field of solid waste management. |
| Position held: Junior Environmental and Social Expert/ Coordinator |
| Activities performed: Responsible to support data collection, site investigation to FDS, WTE Plant and waste collection sites, confirmation of waste management activities in YCDC, coordination with government organizations. |
| Name of assignment or project: <i>“Industrial Wastewater Management Packaged Business Model, Feasibility Study for Myanmar”</i> |
| Year: December 2018-January 2019 |
| Location: Myanmar |
| Client: Ministry of Economy, Trade and Industry (METI) |
| Main project features: To develop business model of industrial wastewater management (treatment and monitoring) and propose to Myanmar Industry Sector and Government |
| Position held: Coordinator |
| Activities performed: Responsible to support data collection, meeting arrangement, coordination with government organizations. |

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| | Name of assignment or project: <i>“EIA Study for Service Apartment Development Project in Tamwe Township, Yangon”</i> |
| | Year: August 2018-January 2019 |
| | Location: Myanmar |
| | Client: NSKRE Residence (Myanmar) Co., Ltd. |
| | Main project features: Construction, Leasing and Managing Service Apartment to provide development of new housing units to cater for the increase in urban population within Yangon City. |
| | Position held: Junior Environmental and Social Expert |
| | Activities performed: Responsible for data collection, site investigation, overall support and preparation of EIA report, confirmation of environmental management activities in the project site coordination with government organizations and communities. |
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| | Name of assignment or project: <i>“EIA Study of the Yangon Port Expansion Project in Thilawa Area (Phase II)”</i> |
| | Year: June 2018-Present |
| | Location: Myanmar |
| | Client: Myanmar Port Authority (MPA) |
| | Main project features: EIA Study for Infrastructure and Service Development under JICA ODA Loan in Plot 24 and 26 for expansion project of Yangon Port in Thilawa Area (Phase-II) which is expected to develop as container-based multipurpose terminal. |
| | Position held: Junior Environmental and Social Expert |
| | Activities performed: Responsible for data collection, site investigation, overall management and support in conducting stakeholder meetings, conducting seasonal baseline surveys, preparation of EIA report, coordination with governmental organizations and communities, confirmation of environmental management activities in the project. |
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| | Name of assignment or project: <i>“Environmental Management Plan (EMP) for Existing Beer Production Factory (Myanmar Brewery Factory)”</i> |
| | Year: June 2018 – November 2018 |
| | Location: Myanmar |
| | Client: Myanmar Brewery Limited |
| | Main project features: Preparation of Environmental Management Plan (EMP) report for MBL Beer Production Factory. |
| | Position held: Junior Environmental Expert/ Project Coordinator |
| | Activities performed: Responsible for the overall management and supervision on the preparation of EMP report, sampling of wastewater water extracted from the factory, measuring noise level, site investigation and confirmation of environmental management activities in the factory. |
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| | Name of assignment or project: <i>“Project for Capacity Development in Basic Water Environment Management and EIA System in the Republic of the Union of Myanmar”</i> |
| | Year: July 2017 – May 2018 |
| | Location: Yangon and Mandalay, Myanmar |
| | Client: JICA (Japan International Cooperation Agency) |
| | Main project features: Technical Assistance and Capacity Development for government officers and staffs via inspection training, water quality survey and report writing training, pollution source survey and database development training, and EIA review training. |
| | Position held: Junior Environmental Expert |
| | Activities performed: Responsible for support in conducting water quality surveys in Hlaing River |

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| | Basin in Yangon and Doke Hta Wady River Basin in Mandalay, collection water samples, discharge calculation and pollution load estimation based on laboratory analysis results, supporting for water quality survey report writing training and data collection for information interpretation, responsible for logistic arrangement and coordination with government organizations, communities and stakeholders. |
| | |
| Name of assignment or project: <i>“Wave Analysis and Sustainable Port Development Plan in Dedaye Flat Region”</i> | |
| Year: May2016 – November2016 | |
| Location: Yangon, Myanmar | |
| Client: Port & Harbour Engineering Department, Myanmar Maritime University | |
| Main project features: Group work project to study on wave analysis and planning for sustainable port development in Dedaye Flat Region by four specific objectives: (i) Investigation of shore line changes in study area, (ii) Numeical Wave Analysis by using Q-basic and Delft 3D softwares, (iii) Observation about transport logistics from the study area to industrial zones by considering both inland water way and road transportation modes, and (iv) Considering possible sustainable port layout plan in the study area. | |
| Position held: Practical Training Student | |
| Activities performed: Responsible for conducting overall studies of the project: On-job site visit to Ports in Thilawa Port Area and Downtown area of Yangon, Study for shore line changes in study area by using historical data of tide, wind, water level, etc. by using QGIS and Google Earth, Numerical analysis of waves around study area by using Q-basic and Delft 3D modelling softwares, Interview survey with shipping logistic companies and literature survey for transportation logistics from study area to targeted industrial zones, Considering possible sustainable port layout plan, Scale Model Preparation, and Report Preparation. | |

15. Certification:

- i) I certify that (1) to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience; (2) that I am available for the assignment for which I am proposed; and (3) that I am proposed only by one Offeror and under one proposal.
- ii) I understand that any willful misstatement or misrepresentation herein may lead to my disqualification or removal from the selected team undertaking the assignment.
- iii)



DATE:

25

January

2020

[Signature of expert or authorized representative of the firm] Day/Month/Year

Day

Month

Year

Curriculum Vitae (CV)

| | | | |
|------------------------------|--|---------------------|---------|
| 1. Proposed Position: | Environmental Specialist | | |
| 2. Name of Firm: | Nippon Koei Engineering Consultants | | |
| 3. Name of Expert: | Humm Kham Zan Zan Aung (Ms.) | | |
| 4. Date of Birth: | 28 th August 1993 | Citizenship: | Myanmar |
| 5. Education: | (2009-2014) B.E. (Civil), Technological University (Mandalay), Myanmar. (2016-2017) PG.Dip. (Environmental Engineering), Yangon Technological University, Myanmar (2017-2018) M.S. (Environmental Engineering), Yangon Technological University, Myanmar | | |
| 6. Contact details: | zanzan-aung@nk-portmm.jp hummkhamzanzanaung@gmail.com +95-9-797100930 | | |

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|---|--|----------|---------|---------|
| 7. Membership in Professional Associations and Publications: | <ul style="list-style-type: none"> ▪ Junior Member (Myanmar Engineering Society) ▪ Member of Young South East Asian Leaders Initiative (YSEALI) ▪ Core team member of TREES- Think Renewable Energy and Environmental Sustainability ▪ Paper titled “Wastewater Treatment Using Free-Water Surface Constructed Wetland with Water Hyacinth and Water Lettuce” at National Conference on Science and Engineering 2018 | | | |
| 8. Other trainings: | <ul style="list-style-type: none"> ▪ <i>Certificate of Auto CAD Course (2014)</i> ▪ <i>Certificate of E-TABS Course (2015)</i> ▪ <i>Certificate of Participation in National Conference on Science and Engineering 2018</i> ▪ <i>Certificate of Basic Training Course on Geographic Information Analysis System using NK-GIAS (2019)</i> | | | |
| 9. Countries of Work Experience: | Myanmar | | | |
| 10. Language Skills (indicate only languages in which you can work): | LANGUAGE | SPEAKING | READING | WRITING |
| | English | Good | Good | Good |
| | Myanmar | Native | Native | Native |

11. Employment Record:

| Period | Employing organization and your title/position. Contact information for references | Country | Summary of activities performed relevant to the Assignment |
|------------------------|---|---------|---|
| December 2016- Present | Nippon Koei Engineering Consultants Port Development Office <i>Environmental Specialist</i> | Myanmar | Responsible to monitor and check about air pollution, noise and vibration, offshore work water pollution, oil spill leakage, solid waste, soil contamination and fishery activities around site, organize the environmental monitoring activities and the mitigation measures, prepare weekly, monthly, annual and completion monitoring reports containing the monitoring results and prepare the environmental management and monitoring plans. |

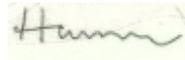
| | | | |
|--------------|---|---------|---|
| 2016-Present | TREES- Think Renewable Energy and Environmental Sustainability <i>Core Team Member (Volunteer)</i> | Myanmar | Responsible for writing the article related to environmental field with own creation to be simple and easy to understand for all education levels on the social media, responding the reactions and comments of the audience on my articles, cooperating with other team members to prepare presentation slides with simple tips for environmental awareness education programs and participating as a speaker and an environmental educator in the programs to engage the public in developing environmental awareness on a variety of topics. |
| 2014-2016 | New Star Light Construction Co.,Ltd. <i>Junior Engineer</i> | Myanmar | Work under the direct command and management of a Senior Engineer and responsible to check and test the strength of formworks, steel arrangements, site cleanliness and scaffolding system before concrete work, supervise the workers to be good at team work and technical skills, distinguish concerns, identify them and solutions to these, check and solve the daily environmental, social, safety and health and sanitation problems of the workers in the site, calculate the bill of quantity and draw the detail Engineering drawings with Auto CAD software. |
| 2011-2014 | Freelance <i>Part-time Teacher</i> | Myanmar | Responsible to prepare and teach for the students who are primary, secondary and high school students during summer holidays and teach both English and Mathematics subjects to them. |

| 12. Detailed Tasks: | 13. Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks: |
|---------------------|---|
| | <p>Name of assignment or project: <i>“Environmental Specialist for the Project on Expansion of Yangon Port in Thilawa Area (Phase-II)”</i></p> <p>Year: December 2016-Present</p> <p>Location: Myanmar</p> <p>Client: Myanmar Port Authority (MPA)</p> <p>Position held: Environmental Specialist</p> <p>Activities performed: Responsible for environmental monitoring, organizing the environmental monitoring activities and the mitigation measures, preparing environmental monitoring reports and preparing the environmental management and monitoring plans.</p> <p>Main project features: Infrastructure and Service Development under JICA ODA Loan in Plot 25 for expansion project of Yangon Port in Thilawa Area (Phase-I) which is developed as multipurpose terminal.</p> |
| | <p>Name of assignment or project: <i>“Environmental Specialist for the Project on Myanmar International Terminal Thilawa Yard Development”</i></p> <p>Year: February 2017 – July 2018</p> <p>Location: Myanmar</p> <p>Client: Myanmar International Terminal Thilawa Limited</p> <p>Main project features: Environmental Monitoring Report for the project.</p> <p>Position held: Environmental Specialist</p> <p>Activities performed: Responsible for environmental monitoring, organizing the environmental monitoring activities and the mitigation measures, preparing environmental monitoring reports.</p> |

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| | Name of assignment or project: “ <i>Environmental Specialist for the Project on International Bulk Terminal Thilawa</i> ” |
| | Year: May 2017 – April 2019 |
| | Location: Myanmar |
| | Client: International Bulk Terminal Thilawa Ltd. |
| | Main project features: Environmental Monitoring Report for the project. |
| | Position held: Environmental Specialist |
| | Activities performed: Responsible for environmental monitoring, organizing the environmental monitoring activities and the mitigation measures, preparing environmental monitoring reports. |

14. Certification:

- i) I certify that (1) to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience; (2) that I am available for the assignment for which I am proposed; and (3) that I am proposed only by one Offeror and under one proposal.
- ii) I understand that any willful misstatement or misrepresentation herein may lead to my disqualification or removal from the selected team undertaking the assignment.
- iii)



DATE:

24

January

2020

[Signature of expert or authorized representative of the firm] Day/Month/Year

Day

Month

Year