

Communication on Progress 2017

HUMAN RIGHTS

Principle# 1: The business should support and respect the protection of internationally proclaimed human rights

Principle# 2: The business should make sure that it is not complicit in human rights abuses

KCE is dedicated and committed to upholding the United Nations Universal Declaration of Human Rights and all other international, regional and/or local laws that apply to KCE, such as the Thai Labour Standards: Corporate Social Responsibility of Thai Business (TLS 8001-2010), the Labour Protection Act, B.E. 2541 (1998) and its amendments, the Labour Relations Act, B.E. 2518 (1975) and its amendments, the Social Security Act, as well as the Workmen Compensation Insurance Act.

POLICIES AND SYSTEMS

- To ensure that KCE is constantly improving its commitments to the UN's Universal Declaration of Human Rights, KCE has continually reviewed and revised its policies and strategies to support human rights. Top Management shall define the policy on social and labor accountability by a written document and formal declaration, expressing the intention to confirm the requirement of human rights, employment conditions and working condition standards.
- KCE appointed an Employee & Welfare Committee comprised of employer and employee representatives to be responsible for carrying out activities related to the application to the requirement of the Thai Labour Standards.
- KCE shall conduct appropriate measures related to occupational safety and health covering all areas and types of work, which may be harmful to worker's health and safety, in accordance with laws and occupational safety and health standards. In order to prevent harm and to decrease risk factors, KCE arranges a safe working environment and provides the following for its workers:
 - a) An opportunity to participate in the management of occupational safety and health.
 - b) An opportunity to obtain access to information concerning hazards that may arise from the working process or working environment.

- c) Knowledge and awareness of rules, regulations, code of practice or guidelines concerning occupational safety and health.
 - d) Training related to occupational safety and health focusing on issues that are newly assigned or re-assigned for the performance of work.
 - e) Safety equipment in accordance with safety standards and suitable for working conditions of each worker.
- KCE shall not engage in or support any discrimination in respect of employment, payment of wages and remuneration, providing welfare and opportunities for training and development, promotion, termination of employment or retirement, and so on, due to national extraction, race, religion, language, age, sex, marital status, personal attitude on gender or sexual orientation, invalidity, HIV/AIDS, AIDS patients, trade union membership, employee committee, political affiliation or personal opinion.
 - KCE ensures that corporate social responsibility, of which human rights is the core component, being an integral part of the company's strategy and that KCE will continue to operate its business in responsible manner for the community.
 - KCE shall provide for and maintain procedures to evaluate and select suppliers or subcontractors who conform to the requirement of the Thai Labour Standards in regard to human rights.

ACTIONS

- Phase 1 of the new KCE plant at Latkrabang started operations in the beginning of 2015, and Phase 2 was implemented in 3Q15 and completed the transfer of operations from the old plant in the middle of 4Q15. In 2016, Phases 1 & 2 of the new plant ramped up capacity to the highest utilization rate. Phase 3 of the new plant started partially at the end of 2016 and continued throughout 2017.

Various measures related to occupational safety and health covering all areas and types of work that may be harmful to workers' health and safety were increasingly put in place at the new plant facilities in accordance with laws and occupational safety and health standards.

- During 2017, the Company participated in safety, occupational health and environmental workplace activities, as follows:
 1. Reported a 96.5% achievement rate in compliance with its safety plan for 2017.
 2. The Safety Unit performed the following activities:
 - An emergency drill for natural gas leakage on October 27, 2017
 - An emergency drilling for an LPG leakage on October 14, 2017
 - An emergency drilling for wastewater rate exceeding standard ratio on December 1, 2017
 - An emergency drilling for an X-ray leakage on November 18, 2017

- An emergency drilling for a chemical substance leakage on September 28, 2017
- An emergency drilling for a hot oil leakage on November 25, 2017
- An annual emergency fire drilling and evacuation procedure performed twice in 2017
- A safety week exhibition on December 15-18, 2017
- An annual medical examination at Bangprakok 9 Hospital
- An assessment regarding safety environment in the workplace
- An improvement of Fire Protection system and emergency equipment:
 - Additional installation of CO₂ fire extinguishers in three red zones
 - New cabinets for firefighting equipment and firefighting suits
 - Installation of a new fire pump to replace a damaged unit
 - Improvement of the exhaust system and installation of an auto-cut in case of a fire inside the exhaust pipe
 - Wheel chairs for injured persons
- During 2017, the Company conducted Customer Satisfaction surveys in various categories, such as technical support, quality performance of product, on-time delivery, problem responsiveness, competitiveness, logistics, accuracy of documents and communication. The results were satisfactory (in a level of 80%-95%).
- KCE established a Committee for the Thai Labour Standard and appointed an Employee representative, Management representative and an internal assessor of the operations of the Labour Standard. (HR announcement #049/2016 - 052/2016 dated August 15, 2016). The main responsibility was to enforce the regulation of the Thai Labour Standard in practice, develop a working plan, and monitor and report achievements in order to comply with Labour standards.
- KCE appointed an Emergency Response Team (ERT) for each shift, 15 persons per shift. (HR announcement #HR025/2016 dated March 9, 2016), to be ready for the protection and/or stoppage of any serious emergency event.
- KCE elected a Committee for the Safety, Health and Working Environment (HR announcement #038/2017), effective July 1, 2017, to June 30, 2018. The Committee consisted of 10 supervisors from the employer and 10 representatives from employees. The main responsibility was to establish a safety policy, provide recommendations for improvement, promote safety activities, oversee the safety manual and practice guidelines, set a training plan and assess the operating results of the Committee in reporting to the Company.
- KCE appointed safety officers at all levels: professional, supervisor and management (HR announcement #HR014/2017 dated February 1, 2017 and HR026/2017 dated June 1, 2017).

- KCE appointed a KPI Committee (HR announcement #HR019/2017 dated March 8, 2017). The main responsibility was to set KPI for the Plant, assess the KPI evaluation results, monitor KPI reporting efficiency, make suggestion for improvement and oversee problems regarding KPI.
- KCE appointed an Educational Fund Committee (HR announcement #HR021/2017 in March 2017).
- The Company's policies and objectives are delivered through "continuous training," including occupational safety and health, technical and professional education, specific knowledge and skills training, and basic training courses to all employees as appropriate for their job and career path (see Appendix 2).
- In 2017, the Company signed a Memorandum of academic cooperation with many Institutes of Technology to create cooperation in academic purposes, such as to provide training for students or to participate in a Cooperative education project. From the training, students could develop knowledge and skills by learning from on-the-job training and from knowledge transferred from the actual situation. It is expected that students will gain the required knowledge that is truly needed by the labor market or an enterprise.
 - 1) On July 26, 2017, the Company signed a Memorandum of academic cooperation with The Minburi Technical College.
 - 2) On September 28, 2017, the Company signed a Memorandum of academic cooperation with the King Mongkut's University of Technology Thonburi.
 - 3) On December 20, 2017, the Company signed a Memorandum of academic cooperation with the King Mongkut's University of Technology North Bangkok.
- After a Memorandum of academic cooperation was signed in 2016, the Company provided training for 14 first-degree students in Engineering from the King Mongkut's Institute of Technology Latkrabang, on June 1-July 31, 2017.
- In 2017, another 17 students from various institutes participated in other training programs to develop various professional skills in the Company.
- KCE has continued its commitment to CSR activities (See Appendix 3).

Activity 1: Knowledge sharing for kids in remote areas

Ban Nonglompukbungsang School and Ban Nongwangnangbaon School, KhonKaen province, November 4-5, 2017 and November 12, 2017.

Activity 2: Donation of clothes, blankets, stationery, sport equipment, consumer goods, and recreational activity, Ban Mae SawanNoi School, Amphur Mae Sariang, Mae Hong Son province, November 18, 2017.

Activity 3: Provided lunch and recreational activity at the Half Way Home for Men, Rangsit-NakornNayok Road, Thanyaburi, Pathumthani province, November 25, 2017.

Activity 4:Offered Lunch and arranged recreational activities.

Thanyaburi Home for Helpless Women, Rangsit-NakornNayok Road

Thanyaburi, Pathumthani province, December 9, 2017.

Activity 5:Other projects:

- Donation of teaching aids and gifts on Children's Day to a total of 12 schools and government units
- Restoration religious places
 - July 8, 2017, KCE donated gold foil to decorate the arched gate and windows at Wat Bang Na Nai, in preparation for the Royal Cremation Ceremony of His Majesty King Bhumibol Adulyadej on October 26, 2017.
 - October 25, 2017, the Company made a contribution of Baht 22,153 for the purchase of land to be owned by the temple and offered robes to monks at Wat Pa Pratharam (Thamsati), Amphur Photharam, Ratchaburi province.
- Activity for Flood Relief in the North East and the South
 - August 17, 2017, the Company participated in an activity to provide assistance for those who were impacted by the flood in Amphur Pochai, RoiEt province, by distributing 1,000 survival kits and 30 boxes of clothing to flood victims.
 - December 14, 2017, the Company participated in an activity to provide assistance to those who were impacted by the flood in Southern provinces by distributing survival kits to the flood victims. The Company's employees and management jointly donated consumer goods.

PERFORMANCE

- No complaints from employees were filed with the Ministry of Labour during 2017.
- KCE was awarded an "Excellent Establishment on Safety, Health and Working Environment" certificate by the Department of Labour Protection and Welfare, Ministry of Labour, in 2010-2017.
- In 2016, the Company was awarded the TLS 8001-2010 Certificate Completion Level, Initiative Phase for the achievement of the requirements of Thai Corporate Social Responsibility issued by the Department of Labour Protection and Welfare, valid from August 15, 2016, to August 14, 2019.
- In 2017, the Company was awarded the "Thai Labour Standard: Corporate Social Responsibility for 5 consecutive years."
- In 2017, the Company was awarded the "Excellent Establishment on Labour Relations and Welfare" at the National level for 5 consecutive years (2013-2017), an award organized by the Department of Labour Protection and Welfare, issued on August 25, 2017.

- In 2017, the Company was selected to be 1 of 20 factories nationwide to join the “Healthy and Happy Enterprise” project and received funds from the Thai Health Promotion Foundation (ThaiHealth). ThaiHealth is a state agency chaired by the prime minister and established by the Health Promotion Foundation Act (2001). The program focuses on four major areas: good health, minimizing risk factors that could affect health, financial relief and a happy workplace.
- The Human Resource & Organization Development Department has continually arranged various training programs for employees throughout the year, resulting in an increase in the total number of training hours and the number of multi-skilled operators:

	2013	2014	2015	2016	2017
Total number of training hours (hrs/person/yr)	23.75	30.14	74.06	73.50	62.52
% of multi-skilled operators	64.44%	69.26%	69.45%	75.22%	70.00%

- Assessment regarding safety environment in the workplace

	Number of check points	
	<u>Total</u>	<u>Passed</u>
Pollution from Chimney	38	38
Chemical level	43	42
Noise Level	21	20
Lighting Level	89	86
Heat Level	14	14

- Accident Statistics in 2014-2017

Type		2014	2015*	2016	2017
First aid	Times	25	36	13	11
Lost days ≤ 3 days	Times	24	20	16	15
Lost days > 3 days	Times	9	11	11	10
Total number of lost days	Days	147	209	245	302
Incident Frequency Rate (IFR)		10.91	12.41	5.63	4.49
Incident Severity Rate (ISR)		27.66	53.43	34.47	37.64

Note: *The statistics of the new plant

LABOUR

Principle # 3:	The business should uphold the freedom of association and the effective recognition of the right to collective bargaining.
Principle # 4:	The business should eliminate all forms of forced and compulsory labor.
Principle # 5:	The business should effect the abolition of child labor.
Principle # 6:	The business should eliminate discrimination in respect of employment and occupation.

Thai Labour Standards: Corporate Social Responsibility of Thai Business (TLS 8001-2010) is written within the provisional scope of the Constitution of the Kingdom of Thailand, provisions of labor laws concerning labor protection, occupational safety, health and environment, labor welfare, and labor relations. Moreover, related conventions of the International Labour Organization and of the United Nations are also brought into account.

KCE recognizes that employees are our greatest asset. To ensure that we are able to recruit, hire, and retain the talented individuals in our organization, we strive to assist all of our employees in maintaining a balanced work life and to provide flexibility to employees on an individual basis.

- KCE respects the right of a worker to establish or become a member of a trade union or other committees in the company, and the right of the worker to bargain collectively without imposing obstacles or any kind of sanction on such activities.
- KCE shall not engage in or support the use of forced and compulsory labor in any form.
- KCE shall not hire or give support to hire a young worker under the age of 15.
- KCE shall not engage in or support any discrimination in respect of hiring, employment, payment of wage and remuneration, providing welfare and opportunity for training and development, promotion, termination of employment or retirement.

POLICIES AND SYSTEMS

- Union-neutral policy: An employee representative will not be subjected to discrimination, displacement or dismissal, or other illegal actions.
- The Company's management provides facilities to the Union or employees' representative in regard to carrying out their functions:
 - collect annual union member fees via payroll deduction

- time-off with pay for union activities: union committee meeting, Union Annual General Meeting (AGM)
- arrange for a meeting venue outside the company for the Union's AGM
- provide partial financial support for union activities
- allow union activities during regular working hours, as requested
- Provide a bulletin board to post union notices
- HR administration policy addressing the issues of human rights:
 - HR policy takes into account the Company's strategy and conforms to the business ethics and the equitable treatment of employees.
 - The HR policy ensures clear, transparent and fair procedures.
 - The Company will recruit and hire a person who is suitable for the job based on skills and experience and other qualifications as required.
 - The Company will pay wages and remuneration according to the Company's pay structure, which is based on job responsibility, economics, and the wage rate of the current market.
 - The Company supports HR development as well as self-development so that employees are knowledgeable and continually increase their efficiency in carrying out their job duties.
- There is no requirement that workers lodge a financial deposit with the Company.
- KCE recognizes the importance of the workforce and prohibits any form of forced or compulsory labor. Workers in debt bondage or in other forms of forced labor are not engaged and, where found, removed.
- The Company's policy for pregnant employees is that they are prohibited to work in situations deemed detrimental to their condition, health and safety for women, and prohibited from working during the hours of 22.00 – 6.00, from working overtime and working on holidays so that they may take care of their health.
- The minimum wage age provision of Thai Labour law is 15 years. However, KCE prohibits hiring employees under the age of 18 years.
- In the recruitment process, an adequate verification method for age is employed to ensure the validity of the applicant's age.
- KCE seeks to disseminate to staff, among other relevant information, applicable laws and regulations, and international regulations ratified by the country for the eradication of child labor and current debates about these issues.
- Grievance procedures regarding discrimination, where found.
- KCE offers equal employment opportunities for all. The persons we recruit and promotions are based on merit and suitability.

- KCE has an annual performance and career development review process which provides all employees with the opportunity to receive regular reviews, regardless of job, grade, gender, age or ethnic origin.
- The recruitment and selection process for employment is based on a policy of non-discrimination and guidelines of Thai Labor Standard.
- All employees are awarded equal opportunities to develop knowledge, skill and competence that are relevant to their job. KCE started to conduct a training needs analysis for specific roles within the organization.
- The recruitment and the selection process of employees of KCE are based on a policy of non-discrimination and the guideline of Thai Labour Standards
- Salary increases for employees depend on performance and added value of an employee's work. All employees are accorded equal opportunity to develop their knowledge, skill and competence as relevant to their job.
- We seek to eradicate discrimination, increase cross-cultural understanding and eliminate workplace violence and harassment. In addition to all the above, KCE organizes in-service training such as the learning of languages, first-aid training, rules of protocol, occupational course training, personnel development courses, team work and regular social events, such as New Year parties, walk rallies, and other sport activities.
- KCE's employees are not discriminated against because of gender, race, origin, background, religion, marital status, sexual orientation, disability or age.

ACTIONS

- Board of Directors Meeting No. 5/2016 held on May 10, 2016, passed a resolution to approve an Employee Joint Investment Program of KCE Electronics Public Company Limited - No. 1 ("EJIP"). The EJIP serves as another means of compensation for employees, executives of the Company and subsidiaries, to promote a sense of ownership, to serve as a work incentive, and to encourage personnel to make a long-term commitment to the Company. Qualified employees can apply to participate in the project on a voluntary basis. Each month, the Company will deduct a rate of 4% to 20% of the basic salary of each employee who joins the EJIP, and the Company will contribute 100% of such deducted amount. However, EJIP participants must strictly comply with a silent period. The Company has already proposed the terms and conditions of the EJIP to the SEC and received approval.
The Program period starting from July 1, 2016 to June 31, 2023, the total duration of 7 years (including the silent period).

- The company appointed an EJIP Committee, HR Announcement # 037, dated June 8, 2016. The main responsibility is to establish the EJIP project and qualifications to apply for the participation, and monitor the operations of the project.
- The Company changed the working schedule for pregnant employees, from working in rotated shift to regular office hours , HR Announcement # 013, dated January 23, 2016.
- During 2017, the union cooperated with the Company's management in various activities, as follows:
 - 2017 annual collective bargaining as a forum to improve employment terms and other benefits and welfare
 - Regular meetings
 - Participation in the Company's activities as well as CSR activities
 - Member of the Employee Committee and Welfare Committee
- KCE appointed an Employee Committee and Welfare Committee since January 2012. At present, the committee is composed of thirteen representatives from employees and thirteen representatives from the employer (HR announcement #059/2560, dated September 21, 2017).The committee is responsible for proposing provisions to ensure that employees have access to adequate welfare, consider grievances from employees and resolve any conflicts, if any.

In 2017, there were four meetings in which the following topics were discussed:

- The general business situation
- KPI evaluations
- Company recreational activities
- Schooling scholarships for children of employee
- Welfare for medical expense for the employee's family members
- Food service in the canteen, the hygiene of the canteen and the canteen supplies
- Arrangement of trade union activities
- Annual working calendar and schedule for the New Year holiday
- General disciplinary procedures
- 5-S activities and the Big cleaning day
- Bus service
- Miscellaneous issues: car parking, drinking water, time recording machine, wi-fi availability, wheel chair for sick employee, ventilation at SM room, toilet repair
- On February 8, 2017, collective bargaining was conducted to address issues related to working conditions and employee welfare. Negotiations reached an agreement for both parties:
 - Schedule for the Annual recreation day

- Leaving allowance
 - Budget for the Labor Union's activity
 - Annual Salary increase rate
 - Annual bonus rate for 2017
 - Other employment conditions
- KCE has always been supportive of the freedom of association and the effective recognition of the right to collective bargaining.
 - Prior to employment, it is our policy to be transparent about all working terms and conditions. KCE's employee policies are specified within employment contracts. These contracts clearly state the actual working conditions and their rights, and thus all employees are aware of their existence and must agree before signing an employment contract.
 - Regularly review timecard, payroll and production records in respect of incorrect record keeping, incorrect or non-payment of wages and excessive overtime hours and verify their accuracy through worker interviews.
 - KCE's employee manual defines work hours. The overtime procedure provides employees a form to sign if he/she agrees to render more than eight hours of duty. Those on overtime are given a premium pay rate according to Thai Labour law, travel allowance from and to their home and a meal allowance.
 - KCE has a child labor employee policy for suppliers and subcontractors to follow. In its contracts with suppliers, the Company requires that suppliers declare that they do not employ child labor.
 - In 2017, KCE announced the policy (HR announcement # HR036/2017, dated April 1, 2017) regarding guideline practice for child labor (age under 18 years), which is required to conform with the Labor Protect Act B.E. 2541.
 - An Employee Satisfaction Survey was conducted for 2017, the result of which was summarized at an average of 65% (a range of min-max 57-70%), an increase from 64% in 2016 and 62% in 2015, representing a high level of satisfaction. The highest score category was for an intrinsic aspects of the job and a Social aspects of the job, and the lowest score category was for benefits. In general, most categories earned higher score and some remained at the same level.
 - The Company continually communicates with employees in order to obtain feedback, assess their needs and problems through various channels; reports from supervisors, employee satisfaction surveys, grievances by employees via personal consultation, telephone, intranet, e-mail or comment box and etc.
 - Since 2015, the "Talent Management" program had been implemented and continuously be in operation until currently in 2017. It is mainly used for personnel development planning, which is already incorporated in the SAP system. The program is based on the principle of competency management,

which can help identify and develop a suitable career development plan for individual personnel, including a succession plan for key positions.

- KCE treats subcontracted labor fairly based on the same standard as used with the Company's own staff in terms of human rights, competency development, training, safety & health and working environment, incentive pay, etc. During 2017, a number of daily-subcontracted workers continued to change to the monthly-workers. Subcontracted labor is also entitled to a merit increase and an annual bonus from the Company. This has caused a major change in the workforce structure; and the turnover rate was reduced from 1.7% to 1.5% in 2017.

Subcontracted labor headcount by type:

	2014	2015	2016	2017
Daily	1,043	772	871	939
Monthly	<u>496</u> (33%)	<u>796</u> (50%)	<u>767</u> (47%)	<u>926</u> (50%)
Total	1,539	1,568	1,638	1,865 persons

- Human Resources Department develop a road map for 2016-2018 :

Challenge: Support business requirement
 Customer needs
 Expansion of KCE's business
 Foundation of HR system
 Increase HR service level

- HR develop the Master Training plan for 2018
- An "Assessment Center" was set up to track HR service via on line, regarding :
 - 1) Recruitment
 - 2) Training
 - 3) Employee relation
 - 4) Employee self service (KPI, OT, Leave record, E- Pay slip ...)

- HR announcement # 053/2560, dated September 21, 2017: HR Administration Policy addressing the following issues:
 - The Company will administer the human resource in compliance to the laws and regulations relating to the HR administration.
 - HR policy takes into account the Company's strategy and conforms to the business ethics and the equitable treatment of employees.
 - The HR policy ensures clear, transparent and fair procedures and be consistence throughout the whole company.

- All supervisors are responsible to administer their unit in line with the Company's guideline of HR policy.
 - Employees are responsible to work in their full capacity and strictly comply to the Company's practice guidelines of the Quality policy, Environmental policy, Safety policy, as well as the Company's working regulations.
 - The Company abides by the "Merit system" that will take in to account the individual knowledge and capability in considering compensation and progress in career.
 - The Company will recruit and hire a person who is suitable for the job based on skills and experience and other qualifications as required.
 - The Company will pay wages and remuneration according to the Company's pay structure, which is based on job responsibility, economics, and the wage rate of the current market that is comparable to the Company.
 - The Company will arrange necessary welfare to facilitate transportation to work.
 - The Company supports HR development as well as self-development so that employees are knowledgeable and continually increase their efficiency in carrying out their job duties.
 - The Company promotes a better quality in life of safe workplace and good occupational health.
 - The Company will maintain a good relationship and understanding between employees and management, as well as among employees, listen to employees' comment and complaint, and will consider for resolution as soon as possible.
- HR announcement #054/2560, dated September 21, 2017: The Administration of Labour Relation Policy addressing the following issues:
- Abide by the provision of Labor law, Labor relations, agreed employment terms and related laws.
 - Settle a dispute, conflict or labor petition in according to the agreed process, otherwise use the negotiation, compromise method or arbitration instead.
 - Promote the efficiency of the co-negotiation, for fairness in employment condition, working condition, and also foster good relations between employer and employee.
 - Determine policy and appropriate practice guideline in HR administration to promote the labor relations within the company to create work satisfactory for workers.
 - Do not support infringement, and do not stop any legal operations regarding freedom in association, the right to negotiate, rules and conventional practice in the company.

- Promote and develop labor relations, based on the foundation of tradition and the national culture to create good labor relations system, which is fair to all parties and meet the social and economic needs for the country.
- HR announcement #017/2560, dated February 20, 2017: The HR regulation of early retirement.
Employee who is 55 years of age, who has worked with the company for more than 20 years, can submit the request for his/her early retirement to HR for consideration and approval.

PERFORMANCE

- KCE received accreditation from the Thai Labour Standard project of the Ministry of Labour in 2010. The Company received TLS 8001-2010 certification (Thai Labour Standard: Corporate Social Responsibility) on February 8, 2013, by having met the requirements of the Department of Labour, Protection and Welfare of the Ministry of Labour. The certification is valid until February 7, 2016.
- In 2016, the Company was awarded the TLS 8001-2010 Certificate Completion Level, Initiative Phase for the achievement of the requirements of Thai Corporate Social Responsibility issued by the Department of Labour Protection and Welfare, which is valid from August 15, 2016, to August 14, 2019.
- In 2017, the Company was awarded the "Thai Labour Standard: Corporate Social Responsibility for 5 consecutive years"
- The Company received the "Excellent Establishment on Labour Relations and Welfare" award from the Department of Labour Protection and Welfare on August 20, 2014.
- In 2015, the Company was awarded the "Excellent Establishment on Labour Relations and Welfare" at the National level in the year 2015 achievement, award organized by the Department of Labour Protection and Welfare, issued July 17, 2015.
- In 2016, the Company was awarded the "Excellent Establishment on Labour Relations and Welfare" at the National level in the year 2016 achievement, award organized by the Department of Labour Protection and Welfare, issued date August 17, 2016.
- In 2017, the Company was awarded the "Excellent Establishment on Labour Relations and Welfare" at the National level for 5 consecutive years (2013-2017), award organized by the Department of Labour Protection and Welfare, issued date August 25, 2017.
- 60% of the Company's employees are represented by the union.
- List of established Associations:
 - Labour Union
 - Employee and Welfare Committee
 - Safety, Health and Working Environment Committee
 - 5S Team

- Thai Labour Standard Committee
 - Educational Fund for Employees' Children Committee
 - KPI Committee
 - Environment Management Representative (EMR)
 - EJP Committee
- In 2017, there were no conflicts between employees and the Company.
 - All employees received salary above the stipulated minimum wage.
 - KCE does not employ child labor, and all employees are over 18 years old.
 - KCE's risk management demonstrates that there are no current or planned business activities in which child labor is or is likely to be a factor. We have appropriate systems in place to ensure that we do not employ child labor.
 - We have enhanced our ability to identify opportunities to influence others to abolish child labor and are considering further embedding of this within our existing risk management system.
 - Neither employees nor the union filed a case regarding unfair treatment against the Company with the Ministry of Labour in accordance with Labour Relations Act B.E. 2518 (1975).
 - Employee complaints averaged less than 1% per year.
 - In 2017, KCE employed 1,008 employees. All employees were above 18 years of age, and there were no employees between the ages of 15-18.

	<u>Age 18+ yrs.</u>		<u>Age 15-18 yrs.</u>		<u>Handicap</u>	
	Men	Woman	Men	Woman	Men	Woman
2013	418	387	None	None	4	1
2014	438	400	None	None	3	2
2015	450	388	None	None	4	4
2016	525	443	None	None	6	3
2017	556	452	None	None	6	3

ENVIRONMENT

Principle #7:	The business should support a precautionary approach to environmental challenges.
Principle # 8:	The business should undertake initiatives to promote greater environmental responsibility.
Principle # 9:	The business should encourage the development and diffusion of environmentally friendly technologies.

KCE recognizes the importance of being a socially and environmentally conscious company. KCE is committed to supporting a precautionary approach to environmental challenges and will undertake initiatives to promote greater environmental responsibility, as well as encourage the development and diffusion of environmentally friendly technologies. KCE demonstrates our commitment through a strong set of policies and objectives that shape the scope of the business and the way that it deals with clients and suppliers.

POLICIES AND SYSTEMS

- KCE is committed to the establishment of an Environment Management System by complying with the Company's environment management policy, as follows:
 - To meet all legal requirements as well as contribute to the improvement of environmental issues.
 - Reduce waste materials.
 - An effective and efficient utilization of natural resources.
 - Continuous assessment and evaluation of the environment management system; review objectives, and targets to ensure the effectiveness of the system.
 - Promote and develop staff awareness and responsibility to the environment through communication, provision of relevant information and cooperation among staff, suppliers, customers, government agencies, the private sector and the general public.
- KCE applies a precautionary principle and seeks to minimize the environmental impact of its activities. Social and environmental impact assessments and reviews are carried out regularly in accordance with international standards and industry requirements.
- KCE aims at collaborating with stakeholders for the protection of environmental quality and values by using every effort in the utilization of energy and natural resources for a sustainable life and environment, working for the development and implementation of environmentally friendly and clean technology and

voluntarily adopting environmental management systems and environmental standards. In addition, the Company collaborates and exchanges information with local, national and international environmental organizations to that end.

- KCE adheres strictly to environmental law and other regulatory requirements, including concerned environmental directives such as RoHs, WEEE, and REACH.
- KCE provides an ongoing environmental induction training and awareness program to provide employees with an insight into our environmental efforts at both the operational and office levels.
- The Company continuously strives to improve our environmental performance by:
 - promoting environmental awareness
 - integrating environmental consideration into the business process
 - developing and applying sustainable processes and products
 - reducing the use of resources and endeavoring to prevent pollution
 - monitoring and evaluating environmental performance throughout the entire supply chain
 - engaging in dialogue with stakeholders and partnerships, and providing performance reports
 - complying with environmental legislation and relevant requirements
- KCE started to reduce paper consumption and encourage its employees to use alternative products such as recycled paper and to avoid unnecessary expense. KCE encouraged staff to correspond and communicate via electronic mail to minimize paper usage.
- Energy and natural resources are utilized effectively and efficiently. The Company has established a waste water treatment plant and an air emission prevention system to treat waste water and air before discharge.
- KCE is committed to contributing to the development of public policy and to the initiatives of businesses, government agencies, international programs and non-government organizations that will enhance environmental awareness and protection through the public release of selected research findings.
- KCE is dedicated to creating more environmental friendly products; to produce environmentally safe PCB products, and to work with our customers and raw material suppliers to produce environmental friendly products such as lead-free and halogen-free products, as well as to use environmental friendly packaging materials such as bubble sheets instead of plastic foam.

ACTIONS

- In 2016, KCE performed two internal audits, conducted two management reviews, and satisfied a surveillance audit performed by SGS (Thailand) for ISO 16949:2009.

- In 2017, the Company conducted Internal Audit System to monitor all Departments' performances to ensure the compliance to the customer's requirements and the ISO/TS 16949 quality standard. Due to the transition of ISO/TS16949 to the IATF16949, the company has already prepared and planed to be qualified for the IATF16949 quality standard in June 2018.

Stage 1 Audit will be conducted in April 2018.

Stage 2 Audit will be conducted in June 2018.

- In 2015, the Company received ISO 14001: 2004 certification (October 14, 2015 - March 28, 2017), which is the standard for environmental management. An audit is continually conducted by SGS (Thailand) to ensure that the Company complies with the policy and strictly operates according to environmental regulations.
- In 2017, the Company received ISO 14001: 2015 certification (March 28, 2017 - March 28, 2020), which is the standard for environmental management. An audit is continually conducted by SGS (Thailand) to ensure that the Company complies with the policy and strictly operates according to environmental regulations. In 2017, 2 audits were performed, in February and in September.
- Established environmental plans for 2016, as follows:
 - Reduce electricity consumption usage:

Target:	≤ 6.40 Kw.hr/ Sq. ft
Results:	5.96 Kw.hr/ Sq. ft
 - Reduce water usage:

Target:	40.00%
Results:	35.74%
- The Company began operating a new plant to expand capacity in order to accommodate growth in customer orders. The new plant was designed based on the Green Building concept to be more resource friendly and efficient in accordance with evaluation criteria of the US Leadership in Energy & Environment Design Standard (LEED) by incorporating the following
 - Waste water treatment technology to reduce water usage , using a Reverse Osmosis (RO) system to treat wastewater from production to recycling.
 - 24-hour use of LED lighting in production areas to reduce electricity usage.
 - A fire sprinkler system in line with the US National Fire Protection Association Standard (NFPA).
 - A fire suppression system for specific areas such as electrical rooms that does not utilize ozone-depleting substances.
 - Full wastewater treatment in accordance with IEAT regulations.

- A high efficiency chiller with an Atmosphere Impact Index according to LEED (Green Building Design and Construction).
 - VSD (variable speed drives) installed on pumps and AHUs.
 - A building management system is provided to monitor and control all energy consumption equipment in order to maximize efficiency during operations.
 - A Chiller Plant Manager monitors and operates chillers and pumps to ensure they operate at the highest efficiency.
 - A sponge Ball-Cleaning system is utilized to clean the condenser tubes of chillers to enhance system performance.
 - Generators are provided to back up life safety equipment.
- In terms of environmental operation, the Company has achieved the objectives specified by the legal rules and regulations as well as the environmental management system. In 2017, the Company arranged several activities for employees to participate in with the aim to promote and encourage environmental safety in accordance with ISO 14001 practices, as follows:
- Promoted the Waste Separation Project; General waste, Recycled waste and Dangerous waste. The result was a better separation of the waste.
 - Promote energy saving in the office area by encouraging all departments to adjust their behavior in order to reduce electricity consumption.
 - Promote water consumption saving in the production area. The result was satisfactory.
 - Monitored the environmental management systems by a newly appointed committee for the Group.
 - Monitored waste water quality after the treatment by the Company on a daily basis,; Copper content must < 2 ppm and PH level must be between 5.5 -9.0.
 - Arranged 2017 Environmental activities in the Safety week event in December
 - Using of environment-friendly raw materials, by controlling the use of prohibited chemicals in the raw materials, which is in compliance to the regulations of RoHS (Directive 2011/65/EU), Packaging Directive (Directive 94/62/EC) End-of-Life Vehicle (Directive 2000/53/EC), REACH and Substance of Very High Concern (SVHC) (Directive 1907/2006/EC) and Global Automotive Declarable Substance List (GASL) and implemented IMDS (International Materials Data System).
 - PCBs that the Company produced is an environment-friendly product. This was certified by a third party certified laboratory, and being recertified every year.

- Reduction of paper usage, including paper for copying, and encouraging the use of recycled paper. The team also seeks cooperation from all departments in changing their behavior or adjusting their work patterns. The result was satisfactory.
- Promote energy saving in office areas by encouraging all departments to change their behavior in order to reduce electricity consumption.
- Promoted safety and environment awareness through fun activities during the Safety Week event.
- HR Announcement # 010/2560, dated January 19, 2560: Appointment of the internal auditor for the assessment of Environmental Management system for KCE Group, in compliance to the ISO 14001:2015.
- HR Announcement # 028/2560, dated January 1, 2560: Appointment of the Auditor for the Energy management Committee
- HR Announcement # 029/2560, dated January 1, 2560: Appointment of the working Team for the Energy management. The team consists of 30 members, being supervisors and Managers from related departments such as Production, QA, Maintenance, Engineer and all supporting departments. .
- HR Announcement # 030/2560, dated January 1, 2560: The Energy Conservation Policy
 - The Company will develop appropriate energy management system and determine that the energy conservation is part of the Company's operations, to be in line with law and other related regulations.
 - The Company will continue to improve the efficiency of the usage of energy resources, in line with technology and conform to the good guideline practice for work.
 - The Company will set a plan and determine target to achieve in energy conservation in each year and communicate with all employee to build understanding and follow good practice.
 - The Company set that all employees and management at all levels are responsible for the energy conservation, and must be cooperated to follow the policy guideline measures.
 - The Company will provide necessary support including human resource, budget, working times, training and proposing recommendation for development of energy matter.
 - The Energy Management committee will review and amend the policy and target, as well as the energy conservation plan each year.
- In 2017, the Company had no social or environmental legal disputes.

PERFORMANCE

- KCE was granted recertification of ISO 14001:2004 (October 2015 – March 2017).
- KCE passed the surveillance audit of ISO 16949:2009.
- In terms of environmental operation, the Company achieved the objectives specified by the legal rules and regulations as well as the environmental management system.

- KCE was awarded the following:
 - ISO/TS 16949:2009 Edition 3 (September 23, 2016 - September 14, 2018), Certificate of Quality Management System of Technical Specification for Automatic Productive and Relevant Service Part (certified since July 18, 2003). This certification is extended to all KCE's Sales and Customer service office worldwide.
 - Due to the transition/upgrade of ISO/TS16949 to the IATF16949, the company has already prepared and planed to be qualified for the IATF16949 quality standard in June 2018.
 - ISO 14001: 2015, valid from March 28, 2017 - March 28, 2020), certified by UKAS in regard to the Environmental Management System and Quality Management System.
 - ISO 9001:2008 (October 14, 2015 - September 14, 2018), certified by UKAS.
The Company is certified as meeting the requirements of ISO 9001:2008 for the manufacturing of Multi Layer PCBs, at the new plant.
- The Company was certified by the "Green Industry", the Ministry of Industry, that the Company is rated "Green industry-Level 3" in the Green system, as the Company has systematically manage the environment, monitor and assess the outcome and continuously improve the results, issued by April 3, 2015 - April 2, 2018.
- In 2017, KCE was awarded the Certificate for the "Good Governance for Environment", issued by the Industrial Estate Authority of Thailand, dated December 13, 2017.
- PCB that the Company produced was in accordance with the RoHS (Directive 2011/65/EC: 2015/863) and was certified by a third party certified laboratory (SGS Thailand Limited, Laboratory Services). The performed test results of Lead, Mercury, Cadmium and 7 other restricted substances, comply with the limits as set by RoHS Directive 2011/65/EC: 2015/863.
- The Company was categorized under the "Universe" of 2017 ESG100 companies, who have an outstanding sustainability performance regarding the Environment, Social and Governance, in 2017, rated by THAIPAT's ESG Rating unit, the Foundation for Thailand Rural Reconstruction Movement (TRRM) under the royal patronage of His Majesty the King.
- In 2018, the Company was awarded the Certificate of Compliance, issued by UL, dated February 23, 2018, regarding PCB product with 6 oz. copper inner layer which is certify under UL standards for safety (CAN/CSA-C22.2 No. 0.17-00- Standard for Evaluation of Properties of Polymeric Materials)

Environmental Performance in 2017

	2017 Actual measurement		Per Law
	Jan - Jun	Jul - Dec	
Air quality from chimneys			
CO Emission (ppm)	32.30	4.70	690
No ₂ Emission (ppm)	29.99	2.95	200
Particulate (mg/Nm3)	30.07	1.50	400
Noise quality			
Average noise level 8 hrs.	55.58		90
Maximum noise level	121.6		140
Quantity of industrial waste			Properly Buried or Recycled Managed by licensed company
Non-toxic industrial waste (per year)	4,077Tons/ Year		
Toxic industrial waste (per year)	9,392Tons/ Year		

ANTI-CORRUPTION

Principle# 10:

The business should work against corruption in all its forms, including extortion and bribery.

KCE manages its business with honesty, fairness and transparency, and is committed to being responsible to society and all stakeholders in compliance with accepted principles of good corporate governance and business ethics.

KCE is committed to achieving the highest levels of business integrity, morals and transparency through good corporate governance in responding to society and all stakeholders. Thus, fraud risk management is one of the key components applied by the Company to achieve its business objectives.

KCE believes that bribery and corruption must be tackled by all levels of society. KCE's role as a private company is to act responsibly in all aspects of how KCE conducts business, as well as to actively support relevant initiatives to combat corruption.

POLICIES AND SYSTEMS

- Zero Tolerance Policy Statement :

KCE upholds good ethics and morals as critical components in its business operations and does not tolerate any form of fraudulent or corrupt activities even if such activities would be beneficial to the Company. Thus, to ensure KCE Personnel will not disregard the risk of fraud and corruption, all KCE personnel must understand and strictly follow the Company's Anti Fraud-and-Corruption Policy, Corporate Governance and Code of Conduct Handbook and all other relevant policies, procedures, protocols and guidelines without exception.

- Anti Fraud-and-Corruption Policy

KCE has established anti-fraud and corruption policies, procedures, and measures – for instance, the Anti-Fraud and Corruption Policy, Fraud Risk Management Procedures, Corporate Governance and Code of Conduct Handbook, Political Contribution Procedures, Charitable Contribution and Sponsorship Procedures, and Gift and Entertainment Procedures – in order to create awareness and foster an anti-fraud environment within KCE.

KCE must communicate and establish steps to communicate related policies, procedures and measures to KCE Personnel as well as to communicate the policies and measures to external parties (related

business partners and the public). All KCE Personnel have a duty to read, understand, and strictly follow all content of such policies, procedures and measures.

- The Company is committed to implementing an anti-corruption policy. Directors, management executives and all employees of the Company will not accept any form of corruption involving all areas of business and all related sections of the organization.
- The Company's directors are responsible for setting up a policy and ensuring that an efficient system to detect corruption is in place.
- The Company's code of conduct and the business ethics must emphasize anti-corruption.
- The Company's financial statements are reviewed quarterly and audited by a qualified external auditor who is fully independent.
- All information presented in the financial reports are correct, complete and reliable. It was prepared in accordance with generally accepted accounting principles and appropriate standards.
- KCE strives to treat all parties equally and consistently within the framework of the SET by avoiding favoritism or situations where conflicts of interest may arise.
- Directors, management executives and all employees must comply with the Company's code of conduct where sensitive issues are involved.
- Whistle blowing: The Company has a policy to receive information regarding wrongdoing, violations of the law, regulations or Good Corporate Governance principles, or corruption, directly through the Audit Committee.

ACTIONS

- KCE's Board of Directors appointed a Corporate Governance Committee on September 17, 2013. The committee is responsible for managing and controlling the Company's operations in accordance with good corporate governance, policies and related laws.
- In 2015, the CG Committee promoted the efficiency in the practice of Corporate Governance:
 - Encouraged the distribution of Corporate Governance Policy, business ethics and a code of conduct
 - Updated the corporate governance and code of conduct handbook.
 - Had all subcommittees and the CEO conduct a self-performance appraisal.
 - Established a channel for claims and suggestions on any matter so that employees and stakeholders could express their opinions independently, which led to improvements.

- Reviewed, adjusted, assessed and updated Corporate Governance principles and business ethics to conform with the law, regulations of the SET and SEC, and good practices of international standards, and reported such compliance to the Board in each quarter.
- Throughout 2015, KCE promoted communication regarding an anti-corruption policy and fully supported the undertaking of the certification process. As a result, the Company was certified a member of CAC on April 3, 2015.
- The Company encouraged the distribution of the Anti-corruption policy and communicated with management and employees of all level in order that the policy is accounted for as a practical guideline and ensured that operation management is performed honestly, efficiently and effectively.
- At orientations provided for new employees, the Company explains KCE's business ethics, and employees must sign a form in which they agree to strictly comply with the Company's employee code of conduct.
- Regarding the anti-corruption news, HR regularly communicated throughout the organization.
- Concern Departments: HR implemented the reference check before hiring and Purchasing Department also implemented the reference check on seller and subcontractor, before procurement.
- The Company provided whistle blowing channel and investigate the petition.
- Subsequent to the CAC membership certification awarded on April 3, 2015, the Committee has placed an importance on corporate governance procedures and the compliance with anti-corruption guideline practice. The Committee assigned Internal Audit Unit to incorporate assessment criteria for anti-corruption measures on all its audit's checklist.
- In 2017, the Board continued to promote the efficiency in the practice of Corporate Governance, the Board:
 - Endorsed an action plan on CG and Anti-corruption for the year 2017, together with the annual goals for cascading the plan to all for implementation.
 - Encouraged the distribution of Corporate Governance Policy, business ethics and a code of conduct.
 - Updated the corporate governance and code of conduct handbook.
 - Established a channel for claims and suggestions on any matter so that employees and stakeholders could express their opinions independently, which led to improvements.
 - Oversaw the Corporate Governance Committee in reviewing, adjusting, assessing and updating Corporate Governance principles and business ethics to conform with the law, regulations of the SET and SEC, and good practices of international standards, and reported such compliance to the Board.

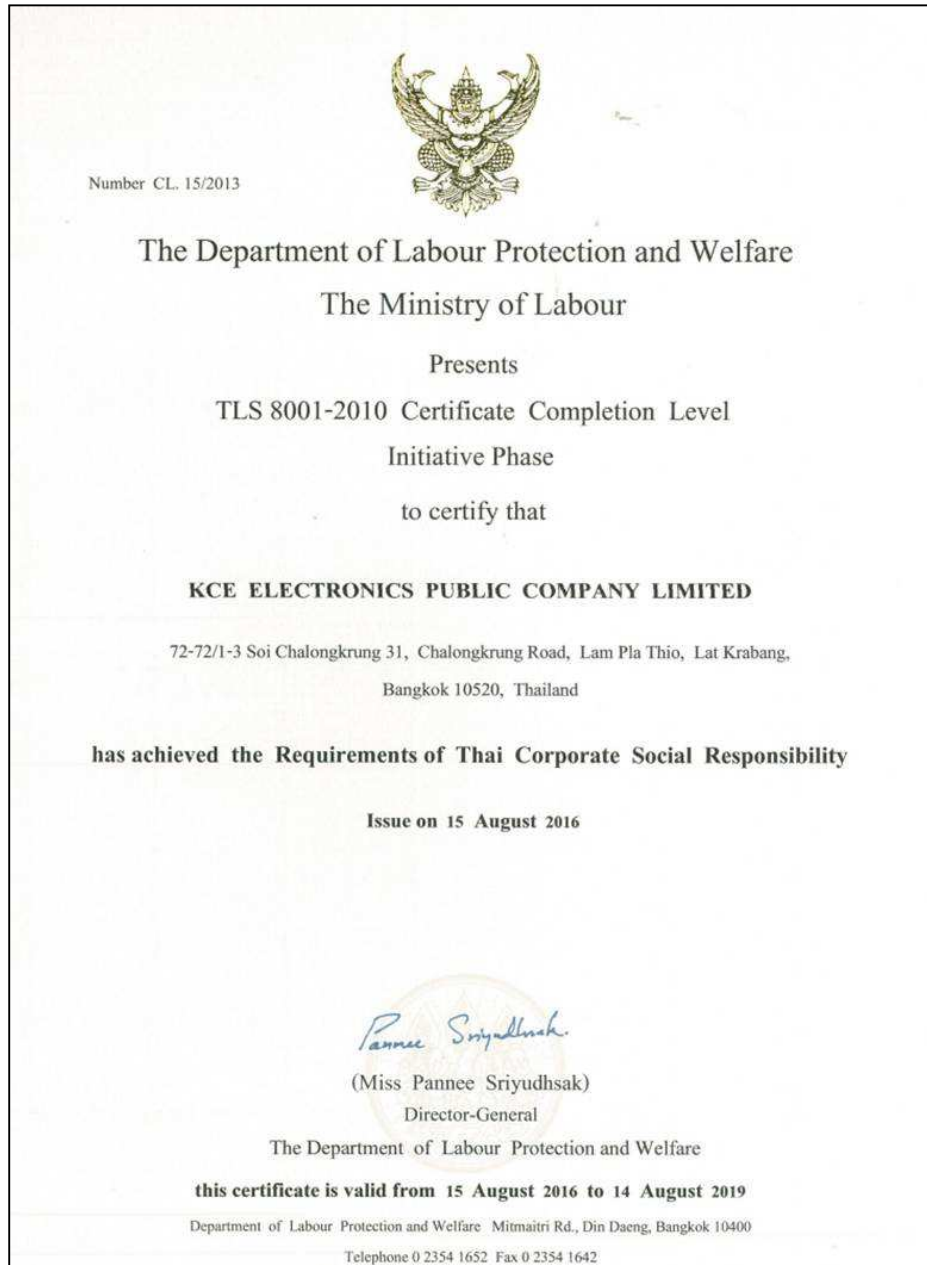
- Designated the Internal Auditor unit to take role of the "Compliance Unit", and directly reported to the Audit Committee.
 - Considered key materiality of the governance-related laws and criteria, e.g., the Securities and Exchange Act (No. 5), B.E. 2559 (Amended), effective 2016. The Committee reviewed the Company's regulations and guideline practice to ensure full compliance.
 - The Committee determined the policy of CSR and sustainability development.
 - Communicated throughout the organization regarding the anti-corruption news.
 - Concern Departments: HR implemented the reference check before hiring and Purchasing Department also implemented the reference check on seller and subcontractor, before procurement.
 - Provide whistle blowing channel and investigate the petition.
 - Considered and approved a review of anti-corruption measures and approved the submission of the recertification of Thailand's private sector Collective Action Coalition (CAC) membership, which the CAC already approved the extension of the certification on Feb 12, 2018.
- In 2017, the Company's Business Ethic was communicated to a majority of local suppliers. The Company encouraged its business partners to participate in any network to fight against any forms of corruption practices, for instance the Thailand's private sector Collective Action Coalition (CAC).
 - During 2017, trainings were provided to senior managements and employees at all level, in fostering knowledge, understanding and awareness of the importance of complying with anti-fraud and corruption policies, procedures, and measures as well as promoting the participation of KCE Personnel in managing fraud risks, taking part to prevent and detect fraud, communicating to related business partners to illustrate the transparency and the strive to work against fraud and corruption at KCE. (See Appendix 4).
 - KCE appoints the Supply Chain Division to perform the screening of related business parties prior to the commencement of work. This includes potential vendors, contractors and service providers - to verify the reliability, qualification, financial health, reputation and integrity of business partners
 - In February 2018, the Code of Conduct and CSR Committee was established, to review the customer's Code of Conduct and to provide the Company's Statement of commitment to the Code of Conduct for customers.

PERFORMANCE

- There was no fraud reported by the internal auditor for 2017.
- A business code of conduct and practical guidelines were completed in 2014 and continuously updated in the following years.

- KCE undertook steps in compliance with the CAC's certification process, such as the development of anti-corruption measures, conducting self-evaluations regarding anti-corruption practices. As a result, the Company was certified a CAC member on April 3, 2015.
- SET Awards 2015: The Company was awarded the "Outstanding CEO Awards" and the "Outstanding Company Performance Awards", in a category of company with market capitalization of Bt10,000 - 30,000 million.
- The Board has committed to place importance in conducting business within the framework of Good Corporate Governance. As a result, the Company achieved an "Excellent" corporate governance score in the 2016 Annual survey by the Thai Institute of Directors Association (IOD), for the second consecutive year.
- SET Awards 2016: KCE's CEO was awarded the "Outstanding CEO Awards" (in SET) and the "Young Rising Star CEO Award". In addition, the Company was awarded the "Best Company Performance Awards", in a category of company with market capitalization of Bt30,000 - 100,000 million.
- In 2017, the Company was awarded an "Excellent" ranking for its Corporate Governance for the third consecutive years, based on a survey of listed companies, by the Thai Institute of Directors Association (IOD)
- In 2017, the Board oversight the preparation of practical guidelines for anti-corruption policy, and promote communication regarding an anti-corruption measures through all subsidiaries in the group.
- The 2017 Audit Committee's report confirmed that:
 - The Company's financial report for the year ended December 31, 2017, was prepared in accordance with generally accepted accounting principles, and the information was accurate, complete and reliable with a reasonable application of accounting policy.
 - The Company's internal control systems are adequate and appropriate.
 - All related party transactions are part of the Company's normal course of business with regular commercial terms, sensible and fair conditions and for the maximum benefit of the Company.
 - The Company fully complies with the Public Company Act and regulations of the Stock Exchange of Thailand, as well as other laws pertaining to the Company's business.
 - Subsequent to CAC membership certification that was awarded on April 3, 2015, the Committee placed increased importance on corporate governance procedures and compliance with anti-corruption guideline practices. The Committee assigned the Internal Audit Unit to review KCE's anti-corruption guideline practices and reviewed the criteria for filing for the recertification of CAC membership. The Company received the extension of the certification on February 12, 2018 for another 3 years.

Appendix 1: Certificates/Awards



KCE was awarded the TLS 8001-2010 Certificate Completion Level, Initiative Phase for the achievement of the requirements of Thai Corporate Social Responsibility issued by the Department of Labour Protection and Welfare, which is valid from August 15, 2016, to August 14, 2019.



In 2017, the Company was awarded the "Excellent Establishment on Labour Relations and Welfare" at the National level for 5 consecutive years (2013-2017), award organized by the Department of Labour Protection and Welfare, issued date August 25, 2017.



The "Excellent Establishment on Labour Relations and Welfare" award (for 5 consecutive years)



The "Thai Labour Standard: Corporate Social Responsibility" award (for 5 consecutive years)



KCE was awarded an “Excellent Establishment on Safety, Occupational Health and Working Environment” certificate by the Department of Labour Protection and Welfare, Ministry of Labour, issued date August 25, 2017.

The “Healthy and Happy Enterprise” Project, by ThaiHealth.



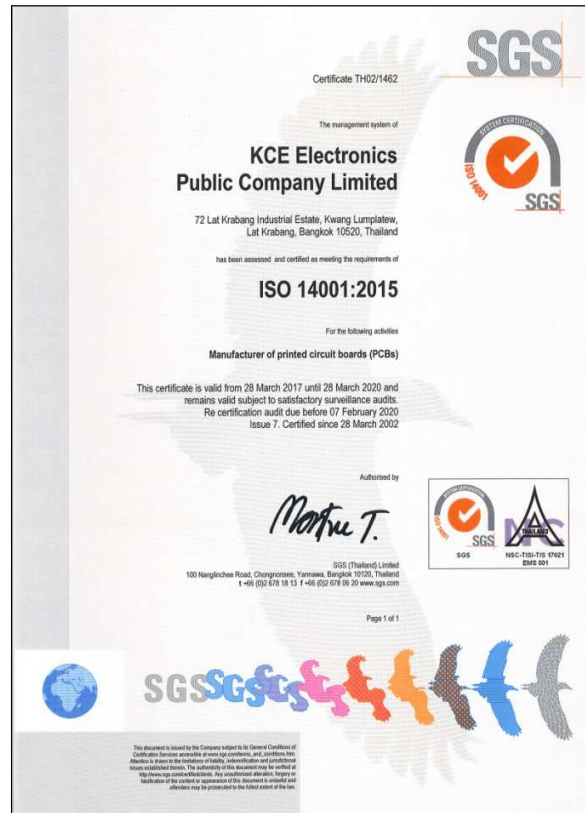
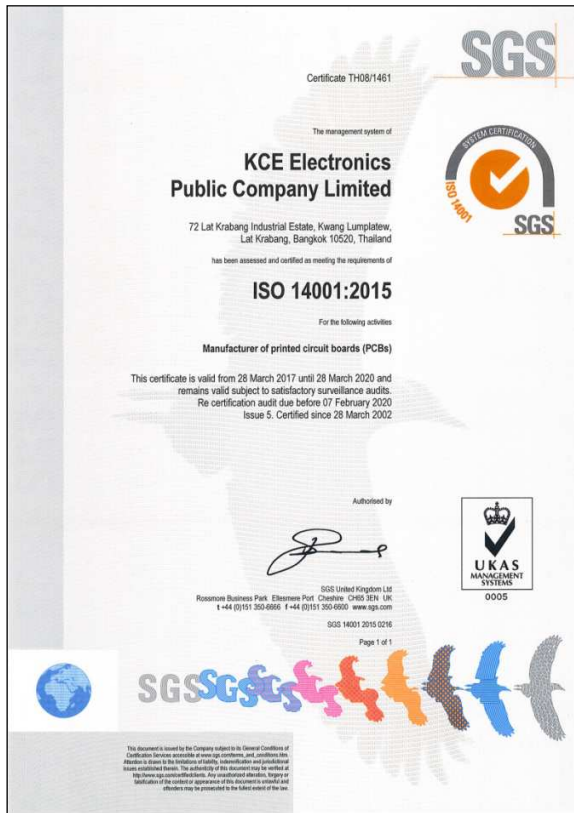
In 2017, the Company was selected to be 1 of 20 factories nationwide to join the “Healthy and Happy Enterprise” project and received funds from the Thai Health Promotion Foundation.

The Certificate for the “Good Governance for Environment”, in Latkrabang Industrial Estate:

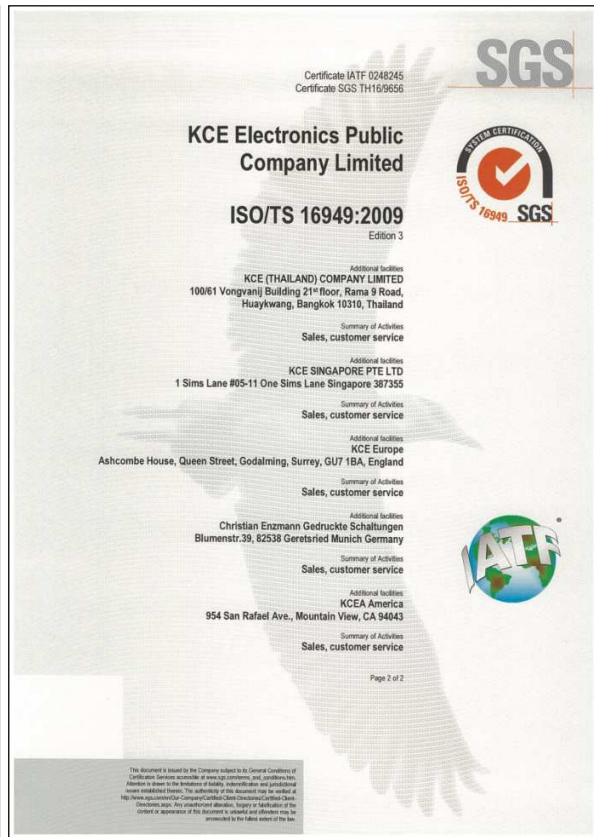
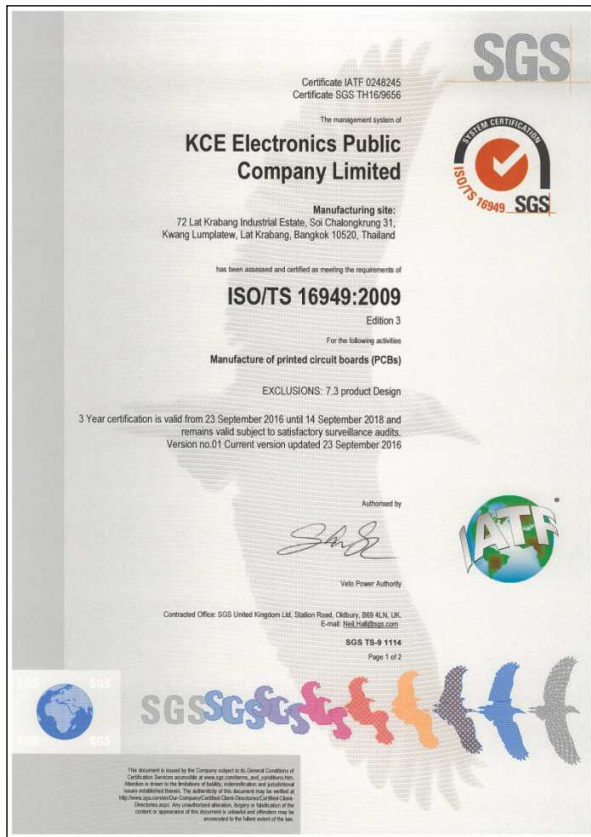


The so-called “White Flag, Green Star” Project:

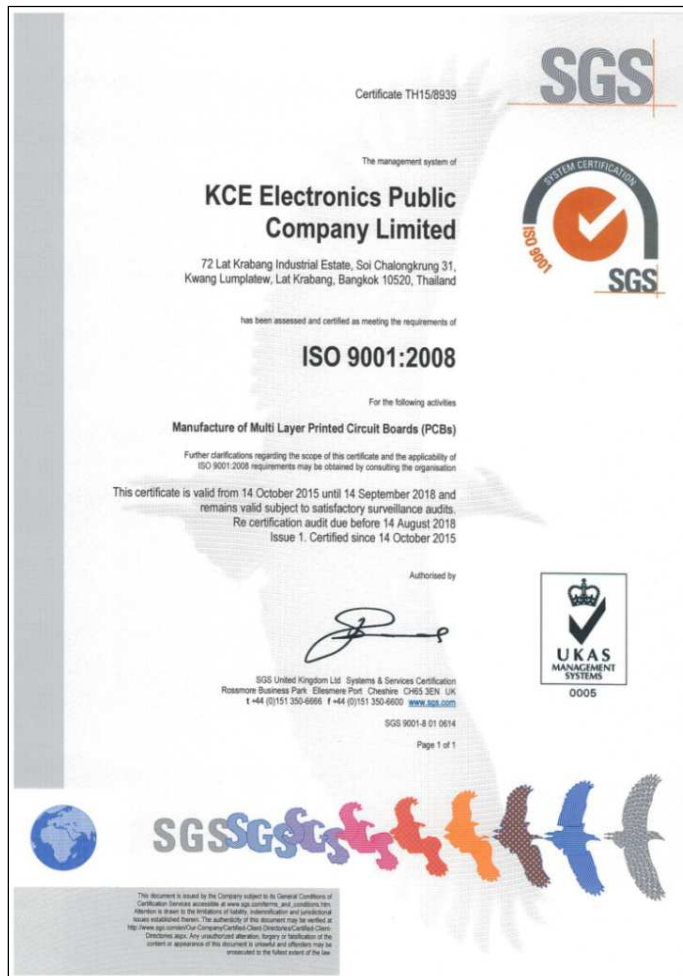
KCE was awarded the Certificate for the achievement of the excellent factory in the “Project of the promotion in cooperation among communities and the factory in the Estate”, in 2017, issued by the Industrial Estate Authority of Thailand, dated December 13, 2017.



ISO 14001: 2015, valid from March 28, 2017 – March 28, 2020 (certified since March 28, 2002), certified by UKAS in regard to the Environmental Management System and Quality Management System.



ISO/TS 16949:2009 Edition 3 (September 23, 2016 - September 14, 2018), Certificate of Quality
Management System of Technical Specification for Automatic Productive and Relevant Service Part
(certified since July 18, 2003).



The Company is certified as meeting the requirements of ISO 9001:2008
For the Manufacturing of Multi Layer PCBs
(Valid from October 14, 2015 - September 14, 2018), certified by UKAS



KCE was certified by the "Green Industry", the Ministry of Industry, that the Company is rated "Green industry-Level 3) in the Green system, as the Company has systematically manage the environment, monitor and assess the outcome and continuously improve the results, issued by April 3, 2015 - April 2, 2018.

2017 ESG100 COMPANIES

Jun 03, 2017/undefined

THAIPAT's ESG Rating Unit, a Thailand pioneer of corporate sustainability assessment, has evaluated...

THAIPAT's ESG Rating Unit, a Thailand pioneer of corporate sustainability assessment, has evaluated the Thai publicly listed companies on their Environmental, Social and Governance (ESG) factors for the first time.

Out of 656 companies that were assessed, THAIPAT selected 100 companies which having outstanding sustainability performance to construct the ESG100 list as a starting universe of the 100 publicly listed companies addressing to the growing demand on sustainable investments.

The full list of ESG100 companies is freely available [here](#).

2017 List of ESG100 Companies



Company Name	Industry	% Free Float
ADVANCED INFO SERVICE	Telecommunications	36.22
AIKCHOL HOSPITAL	Health Care Delivery	55.69
ALUCON	Containers & Packaging	21.95
ARROW SYNDICATE	Industrial Machinery & Goods	28.32
ASIA AVIATION	Airlines	63.94
BANGCHAK PETROLEUM	Oil & Gas – Refining & Marketing	59.89
BANGKOK AVIATION FUEL SERVICES	Oil & Gas – Services	55.35
BANGKOK DEC-CON	Building Products & Furnishings	38.07
BANGKOK DUSIT MEDICAL SERVICES	Health Care Delivery	52.14
BANGKOK EXPRESSWAY AND METRO	Land Transportation	53.99
BANK OF AYUDHYA	Commercial Banks	23.11
BEAUTY COMMUNITY	Drug Retailers & Convenience Stores	64.46
BETTER WORLD GREEN	Waste Management	91.70
CENTRAL PATTANA	Real Estate Owners, Developers & Investment Trusts	52.34
CENTRAL PLAZA HOTEL	Hotels & Lodging	51.66
CH. KARNCHANG	Engineering & Construction Services	63.69
CHIANGMAI FROZEN FOODS	Processed foods	36.44
CHULARAT HOSPITAL	Health Care Delivery	40.52
DELTA ELECTRONICS (THAILAND)	Electronic Manufacturing Services & Original Design Manufacturing	36.88
DENTAL CORPORATION	Health Care Delivery	22.95
DUSIT THANI	Hotels & Lodging	16.48
DYNASTY CERAMIC	Building Products & Furnishings	48.90
ELECTRICITY GENERATING	Electric Utilities	42.92
ERAWAN GROUP	Hotels & Lodging	44.65
FORTH CORPORATION	Electronic Manufacturing Services & Original Design Manufacturing	35.89
FORTUNE PARTS INDUSTRY	Auto Parts	21.85
GLOBAL CONNECTIONS	Chemicals	32.22
GLOBAL POWER SYNERGY	Electric Utilities	24.91
GLOW ENERGY	Electric Utilities	30.89
GOODYEAR (THAILAND)	Auto Parts	25.59
HANA MICROELECTRONICS	Electronic Manufacturing Services & Original Design Manufacturing	49.69
HOME PRODUCT CENTER	Multiline and Specialty Retailers & Distributors	44.87
INDORAMA VENTURES	Chemicals	33.50
INOUE RUBBER (THAILAND)	Auto Parts	27.83
INTERLINK COMMUNICATION	Hardware	43.20
INTERLINK TELECOM	Telecommunications	36.30
INTOUCH HOLDINGS	Telecommunications	59.49
IRPC	Oil & Gas – Refining & Marketing	51.90
KANG YONG ELECTRIC	Appliance Manufacturing	34.99
KASIKORN BANK	Commercial Banks	66.50
KCE ELECTRONICS	Electronic Manufacturing Services & Original Design Manufacturing	62.15
KIATNAKIN BANK	Commercial Banks	84.71
KHON KAEN SUGAR INDUSTRY	Agricultural Products	23.12
KRUNG THAI BANK	Commercial Banks	44.93
KRUNGTHAI CARD	Consumer Finance	39.33
L.P.N. DEVELOPMENT	Real Estate Owners, Developers & Investment Trusts	81.17
LADPRAO GENERAL HOSPITAL	Health Care Delivery	56.16
LH FINANCIAL GROUP	Commercial Banks	26.39
MBK	Leisure Facilities	43.47
METRO SYSTEMS CORPORATION	Software & IT Services	25.68
MINOR INTERNATIONAL	Hotels & Lodging	58.20
MK RESTAURANT GROUP	Food Retailers & Distributors	21.18
NAM SENG INSURANCE	Insurance	34.73
NONTHAVEJ HOSPITAL	Health Care Delivery	31.21
OCEAN GLASS	Industrial Machinery & Goods	37.04
PRE-BUILT	Home Builders	66.38
PREMIER MARKETING	Processed foods	42.85
PREMIER TECHNOLOGY	Software & IT Services	44.27
PRESIDENT BAKERY	Food Retailers & Distributors	25.48
PRESIDENT RICE PRODUCTS	Processed foods	44.78
PROJECT PLANNING SERVICE	Engineering & Construction Services	48.84
PRUKSA HOLDING	Real Estate Owners, Developers & Investment Trusts	24.50

CERTIFICATE OF COMPLIANCE

Certificate Number 20180223-E88599
Report Reference E88599-19901107
Issue Date 2018-FEBRUARY-23

Issued to: KCE ELECTRONICS PUBLIC COMPANY LIMITED
72-72/1-3 Lat Krabang Industrial Estate
Soi Chalongkrung 31, Kwang Lumplatew
Lat Krabang, Bangkok 10520 THAILAND


This is to certify that
representative samples of COMPONENT - WIRING, PRINTED
Refer Addendum Page for Models/Product

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 796 - Standard for Tests for Safety for Printed-Wiring
Boards
CAN/CSA-C22.2 No. 0.17-00 - Standard for Evaluation of
Properties of Polymeric Materials


Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog
number, model number or other product designation as specified under "Marking" for the particular
Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products
that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark:
 may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is
required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual
recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance
capabilities and are intended for use as components of complete equipment submitted for investigation rather
than for direct separate installation in the field. The final acceptance of the component is dependent upon its
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/certifications/>



CERTIFICATE OF COMPLIANCE

Certificate Number 20180223-E88599
Report Reference E88599-19901107
Issue Date 2018-FEBRUARY-23

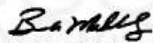
This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models/Product:

USR & CNR - Multilayer Printed Wiring Boards.

Type Designations:

FV-0
MC
MV1
MV-0
MV-1
MV-2
RM
TV-0
WV-0
MC1
MC2



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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In 2018, the Company was awarded the Certificate of Compliance, issued by UL, dated February 23, 2018.



KCE undertook steps in compliance with the CAC's certification process, such as the development of anti-corruption measures, conducting self-evaluations regarding anti-corruption practices. As a result, the Company was certified a CAC member on April 3, 2015 and subsequently received the extension of the certification on February 12, 2018.



SET Awards 2016: The Company was awarded the "Outstanding CEO Awards" and the "Best Company Performance Awards", in a category of company with market capitalization of Bt30,000 - 100,000 million.

Appendix 2: Training and Development

KCE implements an employee development program to enhance their knowledge and potential. In 2017, training courses for employees included, but were not limited to, the following:

No.	Course	Objective	Target Group	Date	Period (TL Hours)	No. of Trainee
Safety						
1	ERT (EMERGENCY RESPONSE TEAM)	Train Emergency Response Team	Emergency Response Team	Jan-Dec 2017	108	10-15
2	Fire Suppression Basis	1.To educate causes and prevention of fires 2) To educate how to use fire suppression equipment.	All levels of employees	Jan, Mar, May, July, Sept, Nov	36	300
				July 2017	6	60
				April 2017	6	32
3	Safety Officer in Supervisor level	1) To comply with the safety regulation 2) To provide knowledge regarding work safety, safety law 3) To prevent or to control incident and disease from work	Supervisors of all Section	May, Oct 2017	12	50
				March 2017	12	60
				Sept 2017	12	60
				Nov 2017	24	120
4	Forklift skills and Maintenance Training	1. To develop skills in using Forklift. 2. To educate for maintenance.	Warehouse, Material preparation, FG stock	Oct 2017	6	26
				Nov 2017	6	20
5	Safety for working with X-rays	To comply with the rules and educate how to prevent dangerous when working with X-rays.	X-ray Area Staffs	Mar, Sept 2017	12	20
				June 2017	9	23
6	Safety for working with Electricity	To provide knowledge of electrical system, how to prevent danger, and safety rules	Supervisor	Aug 2017	6	26
7	Personal Safety	To understand the importance of personal safety equipments Provide knowledge how to use the proper equipment	All employees	Mar 2017	3	37

8	Safety training for the Committee of Safety, Occupational Health and Environment	1. To comply with the law 2. To educate the Committee member to understand their roles and responsibilities.	The Committee member	Oct 2017	12	25
9	Annual Fire Drills and Evacuation.	1.To comply with the rules. 2.To educate how to survive and move from fire areas.	All Employees	Dec 2017	1.0	2,927
10	Training for the basic of First Aid	To understand the basic knowledge of the first aid and be able to help in the emergency incident	Foreman, Leader, Technician, Operator Officer	Jun 2017	6	31
11	Chemical Handling & Emergency Response	1. To know various types of chemical and the usage of chemical. 2. Provide safety procedure in handling and storing chemical and working with chemical. 3. How to handle the emergency incident in case of chemical leaking.	Employee working with chemical	May 2017 Oct 2017 Dec 2017	3 3 6	27 24 51
12	Controlling procedure for RoHs V.2. WEEE and REACH	To understand the regulation of EU	All employees	Jul, Aug, Sept, Oct, Dec 2017	30	40-55
13	Safety Awareness	To create safety awareness in everyday working, toward zero accident.	All levels of employee	Feb, Apr, Jun, Aug 2017	12	124
14	Safe Driving	To prevent or minimize car accident	Related employee	March 2017	3	74
15	Risk Assessment	1. To provide knowledge of risk assessment in workplace 2. To increase the efficiency in safety work	All levels of employee	Apr, Jun 2017 Mar 2017 Apr 2017	6 6 6	30-40 36 33

Environment						
16	ISO 14001:2015 Requirement	1.To educate about the environment management system 2. To specify rules of environment management for ISO 14001:2015	Sr.Engineer, Engineer, Sr. Supervisor, Supervisor Foreman, Leader	Mar 2017	6.0	60
17	Monitoring for environment management (Effective Internal Audit for ISO 14001:2015)	To understand the importance and the regulations of the environment management system of ISO 14001:2015 and be able to prepare an effective monitoring report for the audit	Sr.Engineer, Engineer, Sr. Supervisor, Supervisor	Mar 2017	12	60
18	Creation of an awareness in energy conservation, and Techniques	1.To create awareness of energy conservation 2. Provide guideline for energy conservation in short term and long term 3. Create a role model for energy conservation	All levels of employee	Jan – Dec 2017	9	360–450
19	Basic knowledge on large Particle management system in clean room	To provide basic knowledge of particle management, and to be able to apply to action to minimize the particle in the clean-room so that to reduce the defect caused by particle.	Related employee	Nov 2017	6	27
20	ISO14001: New version	1. To understand the importance of the environment management system 2. To know the regulation of ISO 14001: new version and understand the type of problem of environmental issue.	Sr. Supervisor Sr. Engineer Supervisor, Engineer	Mar 2017	6	43

Human Resources						
21	Training for the Trainer	To be aware of the proper qualification for the Trainer	Sr.Engineer, Engineer, Sr.Supervisor, Supervisor, Foreman, Leader, Sr. Officer	Sept 2017	6	28
	Train the Trainer		Trainer team	Dec 2017	12	50
22	Team Building & Teamwork Techniques	To create enthusiasm and joyful in working together as a team	Sr.Engineer, Engineer, Sr. Supervisor, Supervisor, foreman, leader, officer	Aug 2017	6	55
	Radar Meeting	For employees to take part in identifying problems	All employees	Oct, Nov 2017	9	90-120
	Proactive working	To improve the work efficiency	Sr. Sup, Sr. Engineer	Apr 2017	6	53
23	- Supervisory skills	To provide knowledge regarding necessary skills for a supervisor; good attitude, leadership skill, and to apply to work	Foreman, Leader	Aug, Oct 2017	24	200-240
	- Technique for Supervisor		Foreman, Leader	Sept 2017	6	50
	- Supervisory behavior		Supervisor, Engineer	Feb, Mar 2017	6	70
	- Effective Performance management		Sr. Sup, Sr. Engineer, Foreman, Leader, Officer	Feb 2017	6	42
	- Efficient work scheduling		Sr. Sup, Sr. Engineer, Supervisor, foreman	May 2017	6	59
24	Anti-corruption	To be aware of corruption and the Anti-Corruption policy in place for KCE group.	All employees	Apr, Aug, Nov, Dec 2017	21	280-350
	Anti-corruption		All employees	Oct, Nov 2017	27	270-360

25	- Developing KPI	1. To educate KPI concept and guideline for developing KPI	Sr. Sup, Sr. Engineer, Sup, Engineer, Foreman, Leader, Officer All employees Supervisor, Engineer	Feb 2017	6	45
	- KPI for Performance appraisal			Mar, Apr, Jun, Aug, Oct 2017	15	100-150
	- Technique for effective KPI			Feb 2017	6	36
26	Communication & Co-ordination technique	1. To learn how to effectively assign the work to subordinate 2. To get the skill in evaluating the subordinate, and the needs for coaching.	Supervisor, Sr.Sup. Engineer, Sr. Engineer foreman, leader, officer	Jun 2017	6	54
27	Coaching & Mentoring	- To understand the essence of coaching - Coaching Techniques	Leader	Oct, Nov, Dec 2017	18	90-120
28	Smart Mom – Healthy kids	For pregnant women to know the proper procedure for taking care	Pregnant women	Mar, May 2017	9	37
29	Enterprise Risk Management	To do risk assessment in all areas	HR personnel	Aug 2017	3	19
30	Disciplinary action and the Labor law	To be aware of the Labor law and regulations, and understand the technique for disciplinary actions	Foreman, Leader	Dec 2017	6	30-45

Appendix 3: CSR activities

In 2017, the Company together with its employees participated in the following activities to contribute to the community and the public:

Activity 1: Knowledge sharing for kids in the remote area Project

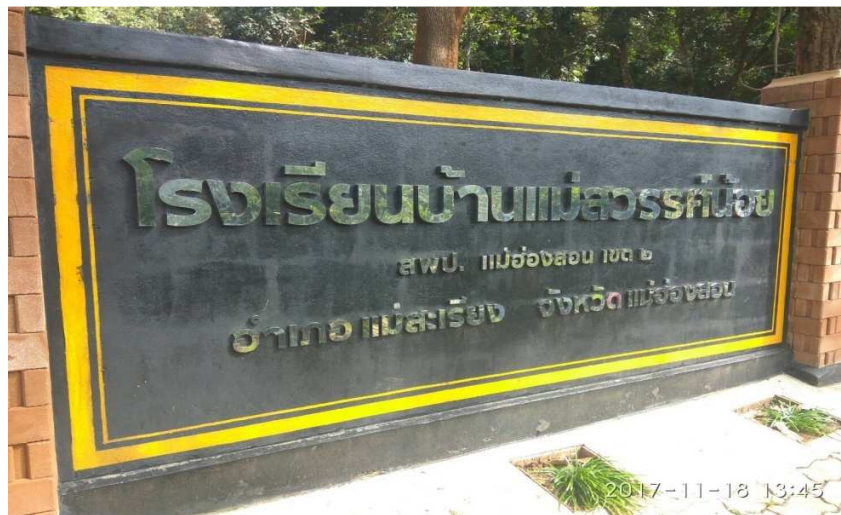
Ban Nongloompukbungsang School and Ban Nongwangnangbaon School, Khon Kaen province,
November 4-5, 2017 and November 12, 2017

The Company provided school scholarships, 1,200 sets of teaching aids and sport equipments to the school.



Activity 2: Donation of clothes, blankets, stationery, sport equipment, consumer goods, and recreational activity, Ban Mae Sawan Noi School, Amphur Mae Sariang, Mae Hong Son province, November 18, 2017

The Company donated clothes, blankets, stationery, sport equipment, consumer goods to the students of Ban Mae Sawan Noi School, located in a mountainous area of Amphur Mae Sariang, Mae Hong Son province, which has two wooden school buildings and one school hall. There are 64 students and 6 teachers at the school. On the activity day, the Company provided lunch to the students and donated clothes, blankets, stationery, sport equipments, consumer goods and funds for a lunch program. In addition, the Company held recreational activities with the students.







Activity 3: Provided lunch and recreational activity at the Half Way Home for Men, Rangsit-NakornNayok Road, Thanyaburi, Pathumthani province, November 25, 2017.

Number of participants: 45

On the activity day, the employees of KCE Group joined to support the Half Way Home for Men by donating money and consumer items, e.g., adult pampers, ASEPSO soap, deodorant roll-on and other personal items, and provided lunch and arranged some recreational activity for entertainment.

The Half Way Home for Men situated on 70 rai of land at 130 Moo 2 Rangsit-NakornNayok Road, Thanyaburi, Pathumthani Province, was established on December 10, 1968. The Half Way Home for Men provides welfare and rehabilitation services for men who are recovering from mental illness after having been discharged from Srithanya Hospital, Somdet Chaopraya Institute of Psychiatry, Galyarajanagarindra Institute, etc., who have no one to take care of them, have no permanent residence, are unable to live with their family or were abandoned. There are 490 patients at the center between 18 and 60 years old.





Activity 4: Offered Lunch and arranged recreational activity.

Thanyaburi Home for Helpless Women, Rangsit-NakornNayok Road

Thanyaburi, Pathumthani province, December 9, 2017

Number of participants: 45

The Thanyaburi Home for Helpless Women is located at 7, Moo 2, Amphur Thanyaburi, Pathumthani province. The home has 485 persons between the ages of 18 and 60. The home was established in accordance with the Beggar Control Act B.E. 2484, in response to an increasing number of people who require welfare service. The home opened on February 22, 1988, to provide welfare and skill development for women who were engaged in begging, aged more than 18 years. Begging is illegal according to the Beggar Control Act, which defines beggars as those being vagrant, homeless, being in trouble, or who lack anyone to take care of them.



On the activity day, the employees of KCE Group joined the activity by donating money, providing lunch, donating consumer goods, e.g., detergent, cleaning supplies, adult pampers, ASEPSO soap, deodorant roll-on and other personal items to the residents of the home, and arranged some recreational activity for entertainment.





Activity 5: Other projects:

- Donation of teaching aids and gifts on Children's Day to a total of 12 schools and government units
On January 9, 2017, the Company donated teaching aids and gifts on Children's Day to a total of 12 schools and government units, as follows:
 - Watplooksattha School, LatKrabang, Bangkok

- PathumThani Special Education Center, PathimThani
- Watpolmanee School, LatKrabang, Bangkok
- SiriwangWittayakarn School, NongChok, Bangkok
- WatLatKrabang School, LatKrabang, Bangkok
- Banlumtonkluay School, NongChok, Bangkok
- Prasansamakkeewithaya School, LatKrabang, Bangkok
- KhehaChumchonLatKrabang School, LatKrabang, Bangkok
- WatBuengBua School, LatKrabang, Bangkok
- WatPakbueng School, LatKrabang, Bangkok
- Lam Phra Ong (Rat ChamroenBamrung) School, LatKrabang, Bangkok
- LatKrabang Industrial Estate Office, LatKrabang, Bangkok



2) Restoration religious places

July 8, 2017, KCE donated for gold foil to decorate the arched gate and window at Wat Bang Na Nai, in preparation for the Royal Cremation Ceremony of His Majesty King Bhumibol Adulyadej on October 26, 2017.

October 25, 2017, The Company made a contribution of Baht 22,153 for the purchase of land to be owned by the temple. Offered robes to monks at Wat Pa Pratharam (Thamsati), Amphur Photharam, Ratchaburi province.



3) Activity for Flood Relief in the North East and the South

August 16, 2017, The Company participated in the activity to provide assistance to those who were impacted by the flood in Amphur Pochai, RoiEt province, by distributing 1,000 survival kits and 30 boxes of clothing to flood victims.

December 14, 2017, The Company participated in the activity to provide assistance to those who were impacted by the flood in Southern province, by distributing survival kits to the flood victims. The Company's employee and management jointly donated consumer goods.



Appendix 4: Anti-Corruption activity

