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| Company Nam | **J&C Co., Ltd.** | | |
| Address | Hokkaido, Sapporo City, Nishi Ward, Hachiken 8 jo Higashi 3 chome 1 -25 | | |
| TEL/FAX | 011-790-6525 | 011-790-6524 | |
| E-mail | kyo.h@j-and-c.com | | |
| year of Establi | 2006 | | |
| Number of em | 4 persons | | |
| URL | www.j-and-c.com | | |
| Director | CEO Kyo Homei | | |
| Industry | Environmental technology R&D, manufacturing and sales company | | |
| Main results obtained in domestic and | Hundreds of cases of water treatment and soil remediation applications in Japan and dozens of similar cases in China, EU, Korea, Taiwan, etc. | | |
| Products and technologies | Name | ① JCSS series of water purifier and JCCW series of water purification equipment | |
| | | ② Livestock farming without pollution emission, creation of compost without pollution runoff | |
| | | ③ Treatment of cattle manure and other livestock manure for rapid detoxification and recycling | |
| | Features |     | ① JCSS series of water purification agents and JCCW series of water purification facilities<br>Safe water purification agent, no equipment vibration, no noise; fast reaction speed; excellent treatment effect; wide application range; low addition amount and low cost; 1/8 to 1/4 of conventional equipment; for difficult-to-treat sewage such as machine processing waste water, ink, petroleum waste water, and waste seepage liquid. It is a fast, easy, and low-cost method to treat black-smelling water and sludge and restore the water body. |
| | |    <br>処理前 処理中 処理後 | ② Livestock farming without pollution emission, creation of compost without pollution runoff<br>Bio-enzymes are added to livestock feed and bedding to prevent poultry manure, the main cause of environmental pollution, from running off, and the bedding and manure are fermented with special materials to create compost that does not run off in the rain. This manure can be used to immediately restore the soil. It requires no investment cost, is easy to process, and can fundamentally solve environmental pollution problems not only in large-scale aquaculture, but also in small-scale aquaculture. Moreover, the cost is extremely low. |
| | |   | ③ Treatment of cattle manure and other livestock manure for rapid detoxification and recycling<br>By adding our bio-regulators to large quantities of cattle manure, poultry manure, and other livestock manure, and by simple, fast, and low-cost treatment, you can not only instantly eliminate odors, but also reduce secondary pollution from the treated cattle manure, preventing the roots from burning, and significantly increase crop yields for enormous economic benefit. |
| | Reference Price | ① JCSS series of water purifier and JCCW series of water purification equipment： JCCW-120 type,: 3.5L x 2.0W x 2.0H treatment capacity: 120m3/H<br>JCCW-30 type,: 2.7L x 0.9W x 1.8H treatment capacity: 30m3/H. On-site restoration without sludge discharge in black smelling water body: restoration of black smelling water body can be done in ten minutes, but at a fraction of the cost. | |
| | | ② Livestock farming without pollution emission, creation of compost without pollution runoff：The use of new technology allows users to benefit from aquaculture at the same time as it is environmentally friendly at no cost to the user. | |
| | | ③ By adding our bio-regulators to cattle manure and other livestock manure, not only is it rendered harmless, but it is also used as a soil improver and fertilizer, and experiments on Japanese mustard spinach cultivation have shown that production has increased up to threefold. | |

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| Company Name | **E&M Co., Ltd.** | |
| Address | Hokkaido, Sapporo City, Nishi Ward, Hassamu 16 jo 14 chome 5－1 | |
| TEL/FAX | 011-213-9103 | 011-213-9104 |
| E-mail | t-hashimoto@sapporo-em.jp | |
| year of Establish | 1996 | |
| Number of emplo | 45 persons | |
| URL | https://www.sapporo-em.jp | |
| Director | Hashimoto Koichi | |
| Industry | Industrial waste disposal | |
| Main results | Processing and recycling of beverage containers, used paper, and waste in Sapporo | |
| Products and technologies | Name | Beverage Container Recycling |
| | Features | Our company provides recycling business scheme through collection, sorting, processing, and reuse of beverage containers.<br><br>In particular, bags containing a mixture of plastic bottles, aluminum cans, steel cans, and glass bottles are collected and sorted by material.<br>Aluminum and steel cans are recycled by pressing.<br>For PET bottles, labels and caps are separated by machine and hand, flaked, cleaned, and sold.<br>Glass bottles are crushed into small pieces, additives are added, and they are fired to form foam, which is used for roadbeds instead of crushed stones.<br><br>The company's unique work line allows for high quality separation and standardization of processes, making it possible even for people with disabilities to handle the work.<br>There are 50 people with intellectual disabilities who are employed with the company, and by providing a place where people with disabilities can work, our company implements initiatives in line with the SDGs principles. |
| | Reference price | |

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| Company Name | | **Elcom Co., Ltd.** | |
| Address | | Hokkaido, Sapporo City, Kita Ward, Kita 10 jo Nishi 1 chome 10-1, MC Building | |
| TEL/FAX | | 011-727-7003 | 011-727-7004 |
| E-mail | | aga@elcom-jp.com | |
| year of Establish | | 1991 | |
| Number of emplo | | 16 persons | |
| URL | | http://www.elcom-jp.com/ | |
| Director | | CEO　Soma Tadashi | |
| Industry | | Manufacturing and sale of environmental and industrial equipment | |
| Main results obtained in domestic and | | ① Supermarkets, convenience stores, hotels, commercial facilities, schools, factories, municipalities, etc. We have implemented our products at foreign factories of Japanese companies<br>② Supermarkets, department stores, fishery cooperatives, factories, municipalities, etc. Overseas, we have implemented our products in | |
| Products and technologies | Name | ① Garbage compactor PREMO | |
| | | ② Styrofoam Volume Reducing Machine Styros | |
| | | ③ Waste Plastic Clean Energy Conversion System e-PEP | |
| | Features |  | ① Garbage Compactor PREMO<br>Features<br>PREMO compresses and reduces paper and plastic waste up to 1/5 into 45L, 70L, and 90L bags. 100V power supply, quiet operation, and small size make it easy to install in offices and stores. It is a user-friendly garbage compactor with easy operation, safety, and maintenance.<br>Implementation advantages<br>Compressing garbage with PREMO saves space in garbage bins, prevents garbage scattering, and enables hygienic and efficient management. In addition, compacting and discharging refuse reduces collection and transportation costs. The reduced number of times of collection and transportation reduces $CO_2$ emissions from transportation. |
| | |  | ② Styrofoam Volume Reducing Machine Styros<br>Features<br>Styros is ELCOM's unique volume reduction method that compresses and reduces styrene foam to a maximum of 1/25th its original volume by frictional heat without using heat or solvents. Odors are minimized, and processing is possible while the material is still wet. There is almost no thermal degradation, and the compressed material can be reused as an important resource for the earth through material recycling or thermal recycling.<br>Implementation advantages<br>Compared to conventional volume reducers that use heat or solvents, the electricity bill can be reduced to 1/4 of the original cost. By reducing the volume of bulky styrene foam for transportation, transportation costs and $CO_2$ emissions related to collection and transportation are indirectly reduced. |
| | |  | ③ e-PEP Plastic Clean Energy Conversion System<br>The "e-PEP System" is a system that uses used plastic as clean energy in-house, instead of turning it into "waste plastic". Compared to other recycling methods, this system can effectively use waste plastic, which is difficult to recycle due to its contamination and composite materials, as its own energy.<br>Five advantages<br>1. Compact design that can be installed and operated inside the plant<br>2. 70% high efficiency and energy saving by connecting to existing heat sources without interference.<br>3. Meets exhaust gas emission regulations. Dioxins are 1/40 of the regulation standard value.<br>4. Simple process. Operation can be done by simple operation on the operation panel.<br>5. Approximately 70% of waste plastics can be used (excluding nylon and vinyl chloride)<br>Implementation advantages<br>Curbing of waste plastic emissions by approximately 100 tons per year<br>Reduction of approx. 90,000 liters of existing fuel per year, energy saving of heat source equipment<br>Reduction of 290 tons of CO2 per year (equivalent to the CO2 absorbed by about 20,000 cedar trees) |
| | Reference Price | 1) Approx. 1.0 to 1.8 million yen (3 models)<br>2) Approx. 2.5-6.5 million yen (3 models)<br>3) Approx. 50-65 million yen (per system) | |

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| Company Name | | **Cobaltech Co., Ltd.** | |
| Address | | Hokkaido, Sapporo City, Shiroishi Ward, Chuo 3 jo 2 chome 1-30 | |
| TEL/FAX | | 011-876-8755 | 011-876-8753 |
| E-mail | | takemata@cobaltech.co.jp | |
| year of Establishment | | 2009 | |
| Number of employees | | 8 persons | |
| URL | | http://www.cobaltech.co.jp | |
| Director | | CEO　Takemata Masanobu | |
| Industry | | Manufacture and sale of diamond tools used for cutting and drilling concrete | |
| Main results obtained in domestic and foreign markets | | JIN" is a hand core drill with dust collection capability. It is a revolutionary product that reduces dust generation during hand core drilling to almost zero. This product was developed in response to customer feedback from the job site, and not only improves work efficiency, but also protects the health of the operator and the work site environment. The company is currently expanding its sales not only in Hokkaido but also throughout Japan.  The product received the "Excellence Award" in the manufacturing category of the Hokkaido New Technology and New Product Development Awards in 2022. | |
| Products and technologies | Name | "JIN" dry hand core drill with dust collection | |
| | |  | Dry hand core drills<br>  <br>Dust collection shank full set<br>  |
| | Features | JIN" Dry Hand Core Drill with Dust Collection<br><br>JIN" was released as a product that reduces dust emissions during dry hand core drilling to almost zero. JIN prevents dust scattering when drilling horizontally as well as upward. It is important to use JIN in combination with a dry hand core drill, a full set of dust collection shanks, and a professional dust collector.<br>The special construction of the dust collection shank prevents the dust collector from losing suction power and achieves almost zero dust.<br>The elimination of dust protects workers' health, safety, and the work environment. In addition, curing can be simplified. Furthermore, there is no dust accumulation during the work. The strong power to vacuum dust also serves to cool the hand core drill blades, allowing for smooth cutting of reinforcing steel and comfortable drilling of concrete. | |
| | Reference Price | | |

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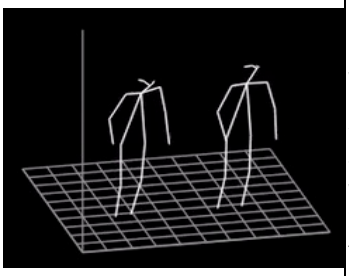
| Company Name | | **Suncreer Co., Ltd.** | |
| Address | | 060-0012 Hokkaido, Sapporo City, Chuo Ward, Kita 12 jo Nishi 23 chome 2-5 SDC Kita 12 jo Building, 5th floor | |
| TEL/FAX | | 011-611-6364 | 011-621-5746 |
| E-mail | | mori@suncreer.co.jp | |
| year of Establish | | 1989/9/1 | |
| Number of empl | | 28 persons | |
| URL | | https://www.suncreer.co.jp/ | |
| Director | | CEO Mori Masahito | |
| Industry | | Information services (software development, sales, maintenance, consumables) | |
| Main results obtained in domestic and foreign markets | | Field tests were conducted at five facilities in Japan and two overseas ones (Singapore). Subsequently, entry to nursing facilities was restricted due to the Corona virus<br>Development of a new version is underway to resolve issues from the field test (suppressing unnecessary notifications, improving accuracy, etc.).<br>A demonstration test will be conducted by gathering applications for monitors to introduce the system while monitoring the coronal virus situation. | |
| Products and technologies | Name | AI-driven care monitoring「smartNexus®care」 | |
| | Features |  | **Privacy-conscious surveillance cameras bring the sence of security!**<br>Privacy-conscious care recording system that records skeletal coordinates from cameras using AI posture estimation (no video recording).<br>We have developed a completely new and unique solution that enables creation of care records, monitoring, and security measures from skeletal coordinates.<br>Visualizing the living conditions and making them available for viewing by all concerned will bring great peace of mind to the patient and his/her family.<br>We believe that this is also important for corporate compliance.<br>In addition to reducing staff shortages in nursing care facilities, it can also contribute to corporate compliance (moral harassment, power harassment, sexual harassment, and other "harassment and bullying" of the elderly and disabled).<br>※International Patent Application：PCT/JP2020/000636 |
| | |  | **Visualize the room at the time of danger notification and determine the level of urgency!**<br><br>Danger notification is notified by a mosaic image.<br>Since it is possible to confirm the approximate situation in the room, high-quality care services can be provided while protecting privacy.<br>Maintaining independent walking is important for extending healthy life expectancy. If a person suffers a serious injury due to a "fall accident," it becomes difficult for them to walk independently, and a great number of elderly people suffer from disuse syndrome → dementia.<br>The photo shows an actual case of detection and notification of a fall accident in a field test.<br>  |
| | |  | **We reduce the anxiety of nighttime patrols!**<br><br>Unnecessarily waking up patients during night patrols....<br>This is the solution for nursing homes.<br>The infrared camera gently watches over the patients even at night.<br>Ｅhe nighttime patrols are said to be mentally challenging for nursing homes because of the lack of staff and the need for a single person to make the rounds at night.<br>Nighttime monitoring by camera is very effective. In addition, real-time monitoring can reduce the risk of accidents such as falls.<br>By reducing the physical and mental burden on staff, we expect that it will also help with employment issues. |
| | Reference Price | Installation cost approx. 600,000 yen (5 cameras, 1 edge computer, 1 POE hub) Cable and installation costs not included<br>Monthly usage fee 55,000 yen (5 cameras) Minimum configuration – | |

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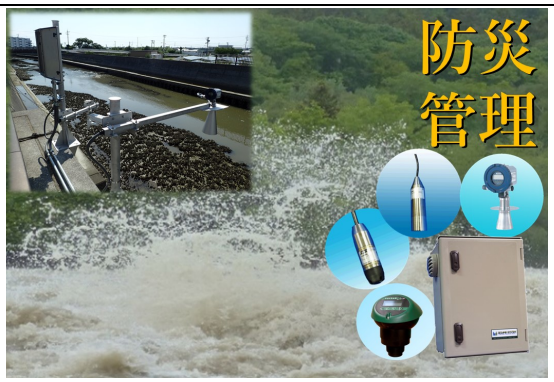
| Company Nam | **Midori Engineering Laboratory** | | |
| Address | 060-0005 Hokkaido, Sapporo City, Chuo Ward, Kita 5 jo Nishi 6 chome 1-23 Dotsu Building, 8th floor | | |
| TEL/FAX | 011-555-5000 | 011-555-3000 | |
| E-mail | info@midori-eng.co.jp | | |
| year of Establi | 2004 | | |
| Number of emp | 8 persons | | |
| URL | https://midori-eng.com | | |
| Director | CEO Shigenaga Kumiko | | |
| Industry | Manufacturing | | |
| Main results obtained in domestic and foreign markets | Japan: A farmer in Hokkaido has installed a temperature/humidity and weather + camera observation system and is satisfied with the results. The system is flexible enough to meet user needs, including the addition of a "work diary" function. The company launched sales of aquaculture pond water quality management/improvement systems. Overseas: Since 2012, the company has installed water level, soil moisture, weather, and other measurement equipment and a data viewing and analysis web system in approximately 250 locations in Vietnam, Thailand, Indonesia, Myanmar, Djibouti, and other countries. Many of these systems are still in operation. We expect to expand into the agriculture and aquaculture fields. | | |
| Products and technologies | Name | ①SESAME Series (Disaster Prevention Management System) | |
| | | ②SESAME AQUA（Water quality management/improvement system） | |
| | | ③SESAME AGRI（Field monitoring system） | |
| | Features |  | ①SESAME Series (Disaster Prevention Management System)<br><br>Real-time monitoring of water levels, rainfall, soil moisture, and weather conditions in rivers, dams, reservoirs, and tropical peatlands. Data is transmitted to the cloud and managed centrally via a web-based system, which enables comprehensive monitoring and analysis of individual rivers and fields. The system has been introduced to rivers and JAXA-managed lands in Japan and overseas, including Timor-Leste. Solar panels and batteries have been used continuously for 10 years. A camera (optional) can be used to view images of the site. |
| | |  | ②SESAME AQUA（Water quality management/improvement system）<br><br>Monitoring water quality (pH, EC (electrical conductivity), DO (dissolved oxygen), etc.) in aquaculture ponds, dams, etc., and centrally managing water health conditions via a web system. An automatic water quality improvement system can be constructed in which a microbubble/nano bubble generator is activated only when water quality deteriorates. A camera (optional) can be used to view images of the site. |
| | |  | ③SESAME AGRI（Field monitoring system）<br><br>Collects temperature, humidity, and soil moisture in the greenhouse and weather information outside the greenhouse in real time all at once, and centrally manages them via a web system. Solar panel + battery system with a 10-year track record of continuous use. A camera (optional) enables viewing of images of the field. Easy farm management with the work diary function.<br>In addition, a system that allows side ventilation of plastic greenhouses to be operated with a smartphone is available. Remote control of irrigation systems is also possible. |
| | Reference Price | | |