ASC-MSC Seaweed (Algae) Audit Announcement Template
ASC-MSC 해조류 심사 공고
[Initiale-certification 최초심사]

Version 1.0 (Issued 8 December 2017)

Scheme documents: 관련 기준
ASC-MSC Seaweed (Algae) Standard 해조류 표준
ASC-MSC Seaweed (Algae) Certification and Accreditation Requirements 인증 및 인정요구사항

This document is to be cited as: 다음의 문서는 다음과 같이 인용됨
ASC-MSC Seaweed (Algae) Audit Announcement Template v1.0
ASC-MSC 해조류 심사 공고 v1.0

Versions issued 개정 정보

<table>
<thead>
<tr>
<th>Version no.</th>
<th>Date</th>
<th>Description of amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>08-Dec-17</td>
<td>N/A - new document</td>
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</table>

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Instructions for using the ASC-MSC Seaweed (Algae) Audit Announcement Template

This template details the information required from conformity assessment bodies (CABs) when formally announcing surveillance, which will be published on the ASC-MSC website. The template should be submitted by email, together with:

1. Completed client document checklist, and
2. Pre-audit report (if one exists and was written by the CAB doing full audit).

Please complete all unshaded fields. Where instructions are included in brackets or *italics*, please delete and replace with your specific information.

**Corporate branding**

The production unit Audit Announcement Template may be formatted to comply with the CAB corporate identity. Examples of appropriate amendments are:

a. A company header used throughout the report.
b. A company footer replacing the current ASC-MSC footer.
c. Inclusion of contact details for the assessment team members in relation to consultation.
d. Deletion of the instruction tab
### Production unit details

**Name of the production unit**

**KIJANG MULSAN CO.,LTD - Kijang Sustainable Seaweed Network**

**Target species common name**

**Sea Mustard - Wakame**

**Species Latin name**

**Undaria Pinnatifida**

**Production system**

- **Off-shore aquaculture**
- **Artificial seedlings collected from existing farm**
- **Floating rope method**

**Location of the production unit**

- **Kijang Sustainable Seaweed Network**

**Stock Region**

- **South East Sea shore of Korea Peninsula**

**Receiving water body**

- **Kijang sea area Pusan, Republic of Korea**

**Clients part of the production unit**

- **Mr. MinSoo, Kim (Director of KIJANG MULSAN, Chairman of Kijang Sustainable Seaweed Network)**

**Facilities**

- **Sea**: culture equipment, rope, stone anchorage, float, boat
- **Land**: cutter, washer, drying machine, separator, packaging machine

**Unit of Certification (if different)**

- **KIJANG MULSAN CO.,LTD (Processing factory)**

**Harvest season**

- **December to May**

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**의문**

- **생산단위에 대한 설명**
- **생산단위명**
- **대상종 일반명**
- **학명**
- **생산시스템**
- **생산단위의 위치**
- **생태자원 위치**
- **수역**
- **담당자**
- **시설현황**
- **가공공장**
- **수확시기**

---

**의문**

- **해조류네트워크**
- **와카메**
- **운다리아 피나티피다**
- **바다양식 / 인공채묘에 의한 종묘생산 / 연승수하식양식**
- **대한민국 / 부산광역시 기장군 일광면 신평길 30-16**
- **부산시 기장군 기장읍 기장해안로 585-1**
- **기장군 양식면허 123호 / 100,000m2 / 부산시 기장군 기장읍 대변로**
- **기장군 양식면허 139호 / 60,000 m2 / 부산시 기장군 기장읍 시랑리**
- **기장군 양식면허 119호 / 80,000 m2 / 부산시 기장군 기장읍 시랑리**
Management system

The Fiscal Agency for Fisheries, under the Ministry of Maritime Affairs and Fisheries, carries out the coastal authority, as well as local governments in the province, city, and district, to provide for fisheries conservation, management, and development. The Korea Government introduces a fisheries-oriented management system for more effective implementation of responsible policies. Under this system, an organization of fisheries, such as a fishery cooperation or a group of fishers or a village constitute self-regulation associations. The Fisheries Agency for Fisheries, under the Ministry of Maritime Affairs and Fisheries, adopted the related laws and regulations with the enforced local government. The fisheries management system further supports the Sustainable Fisheries Management Act, and the related regulations are in place for the purpose of enforcing self-regulation associations and improving the management of fisheries. The Fisheries Agency for Fisheries, under the Ministry of Maritime Affairs and Fisheries, aims to conserve, manage, and develop fisheries.

The Fisheries Agency requires any person who intends to cultivate seaweeds, shellfish, or other marine animals by demarcating specified seaweed beds, the area, and cultivation of other fisheries, or other fisheries to obtain a license from the local government. Other categories of seaweed include mixed seaweed, cooperative seaweed farming, and village seaweed farming. Any seaweed bed is demarcated within the limits of the fishing ground utilization and development plan. According to the act, IMFMA, the state determines, inter alia, the water depth of the fishing ground, exclusive of water depth of cooperative and village seaweed farming, which is determined by Presidential Decree. Units of fishing zone and distances between fishing grounds, methods of fishing ground equipment, cultivation, cataloguing, or matters concerning cultivated products. The state determines the order of priority for the issuance of licenses, specifies the grounds for refusal and revocation of license, and stipulates that licenses may be subject to restrictions or conditions if necessary, inter alia, for the protection and control of fisheries. Licenses are generally valid for a period of ten years. Licenses issued by the Ministry of Maritime Affairs and Fisheries shall be completed by the Ministry, and licenses issued by the local government shall be completed by the provincial office. Licenses issued by the Ministry of Maritime Affairs and Fisheries shall be completed by the provincial office. Licenses issued by the local government shall be completed by the provincial office.

Seaweed category: Medical uses

Statement that the production unit is within scope

The term is managed by individual local farmers with aquaculture license issued by local government. Individual/local farmers in Kang County and aquaculture units are eligible to participate in the association. Any local farmer can be an active member of the association, and subsidiary can be an active member of the association. The association developed written procedures for management system of the organization. It has details for process and management standards. Responsibilities of member farmers are defined. Management system includes processes for decision making, internal audit and management improvement procedures. The association regularly reviews and makes improvements to the current procedures and processes. The association maintains the quality system for its members and external professionals. The association maintains the quality system for its members and external professionals. The association does not allow the use of mutagenic, carcinogenic or teratogenic pesticides, or any other chemicals that persist as residues in seaweed harvests.
### Other production unit in the area

Production unit is mainly about seaweed aqaframing only. 프로덕션 유닛의 주요한 활성은 해조류 양식에 대한 것입니다.

### Main commercial market

Korea domestic buyers and exporting market in Japan and China. 대한민국 내 소비자와 일본 및 중국을 위한 수출 시장.

### Any other information the CAB wishes to provide (including any specific issues within the production unit that need to be highlighted).

인증기관이 제공하고자 하는 추가 정보. This field is optional. 이 부분은 선택적입니다.
### Conformity Assessment Body (CAB)

<table>
<thead>
<tr>
<th>Informative Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Assessment Team Leader</td>
<td>Ryan Ikhwan Bae</td>
</tr>
<tr>
<td>Name of first point of contact for the assessment</td>
<td><a href="mailto:msc.fisheries.global@dnvgl.com">msc.fisheries.global@dnvgl.com</a></td>
</tr>
<tr>
<td>Phone Number</td>
<td>+82 2 724 8421 / Mobile +82 10 9344 0240</td>
</tr>
<tr>
<td>Mailing address</td>
<td>18F, Kyobo Bldg, 1, Jongno, Jongro-gu, Seoul, Republic of Korea</td>
</tr>
</tbody>
</table>

### Client

<table>
<thead>
<tr>
<th>Informative Field</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Name of company</td>
<td>KIJANG MULSAN CO., LTD - Kijang Sustainable Seaweed Network</td>
</tr>
<tr>
<td>Mr. Minsoo, Kim</td>
<td>Chairman of Kijang Sustainable Seaweed Network, Director of Kijang Mulsan Co., Ltd.</td>
</tr>
<tr>
<td>Email address</td>
<td><a href="mailto:ik_jang2@daum.net">ik_jang2@daum.net</a></td>
</tr>
<tr>
<td>Phone Number</td>
<td>Tel +82 51 722 0238 / Mobile +82 10 5499 6399</td>
</tr>
<tr>
<td>Mailing address</td>
<td>30-16, Sinpyeong-gil, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea</td>
</tr>
</tbody>
</table>

### Type of audit

<table>
<thead>
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<tbody>
<tr>
<td>Initial audit</td>
<td>최초 심사</td>
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### Estimated length of the audit and timeline

<table>
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<th>Informative Field</th>
<th>Details</th>
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<tr>
<td>Site visit</td>
<td>March 18 - 20, 2019 (2019년 3월 19일 ~ 3월 20일)</td>
</tr>
<tr>
<td>Public comment draft report</td>
<td>March 24, 2019 (2019년 3월 24일)</td>
</tr>
<tr>
<td>Final Report</td>
<td>April 24, 2019 (2019년 4월 24일)</td>
</tr>
</tbody>
</table>

### Team Leader

<table>
<thead>
<tr>
<th>Informative Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Team leader] Ryan Ikhwan, Bae</td>
<td>is a lead auditor for chain of custody certification for more than 10 years (from FSC and MSC), and he has various system audit project experience from ISO 9001, ISO 14001, OHSAS 18001, ISO 22301, ISO 27001, ISO 22000, FSSC 22000. Preissou career from fast food franchise company (Lotteria.,Co.,Ltd) He attended ASC-MSC Seaweed Standard Assessor training held in Beijing on 24th - 26th Oct 2017 and sucessfully finished qualification exam. [심사팀장] 배익환은 COC 추적성 관리 인증 (산림관리 협의회 및 해양관리협의회)에 대한 선임 심사원으로 10년 이상 근무했다. ISO 9001, ISO 14001, OHSAS 18001, ISO 22301, ISO 27001, ISO 22000, FSSC 22000. 등에 다양한 심사 프로젝트에 대한 경험을 보유. 페이스트 루드 프랜차이즈 (롯데리아) 근무 경력. ASC-MSC 해조류 표준 심사원 교육 참석 (2017년 10월 24일 ~ 26일 베이징 개최) 심사원 자격 시험 합격함</td>
</tr>
</tbody>
</table>
Proposed assessors

Seung Hyun Kwak possesses an experience in Environmental & Safety engineering and management system. The experience covers development of EHS management system and certification to ISO 14001 and OHSAS 18001. It also includes in audit of Environmental Management System as well as Safety Management system. His core competences includes audit, assurance and training on EHS, GHG, Sustainability. Seung Hyun Kwak has been providing assurance services on GHG emissions and corporate reporting. He conducted the validation and verification of CDM projects as well as Corporate GHG Inventory Verifications for various industries such as Oil refinery, Petrochemicals, Cement, Power, Construction and general manufacturing companies. In addition to Carbon verification, he has experience in the verification of water footprint of an organization and/or a product. Seung Hyun has provided many assurance engagement on corporate sustainability reports and greenhouse gas emissions for more than 100 companies. The audit on social accountability including labor and human right is one of his key expertises. Seung Hyun Kwak has conducted more than 100 social audits. [Social assessor]

Shin-Chang, Frank, Chen graduated from National Taiwan Ocean University majoring in Fisheries Economics, Master of Agriculture and Ph.D candidate for Aquaculture in National Taiwan Ocean University. He is now working at the Taiwan Fisheries Economic Development Association, Taiwan as secretary-general since 2010, which management the seafood traceability system with more than 800 aquaculture farms. He possesses experience from Saury Fishery MSC Working Group, Fisheries Bureau, Council of Agriculture, Taiwan/ Research for fishery food safety system, risk management, Aquaculture Risk Analysis Group, Taiwan Aquaculture Fisheries Development Foundation, Taiwan/ Organic Program, Organic Certification Organization Co., Ltd., Japan. He holds lead auditor qualification for Food Safety Program, TQCS International, Australia. [Environment Assessor and Technical Expert]

Site visit Date

18th to 20th March, 2019 (2019년 3월 18일 부터 20일까지)

Location and date of site visit

Production factory and Sea mustard production site : 18th to 20th March, 2019
- Kijang Mulsan : 35.296893 N, 129.260412 E
- Aquaculture license number # 123 (Mr Yeongtae, Kim) : 35.209827 N, 129.232745 E
- Aquaculture license number : 139호 (Mr. Jaehum, Jung) 35.182638 N, 129.215887 E

Stakeholders

Company staff, Stockholder, consumer, prosessing company, logistics provider, local people, researchers

Risk Based Framework

RBF will not be used. 적용되지 않음
| RBF meeting  
<table>
<thead>
<tr>
<th>RBF 미팅</th>
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</thead>
<tbody>
<tr>
<td>NA</td>
</tr>
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</table>
| PI that RBF is to be applied to  
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<thead>
<tr>
<th>RBF 적용 성과 지표 현황</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
</tr>
</tbody>
</table>
| Justification for use  
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<th>적용에 대한 설명</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
</tr>
</tbody>
</table>

**Invitation for stakeholders  
이해관계자 의견수렴**

"A key purpose of the site visit is to collect information and speak to stakeholders with an interest in the production unit. For those parts of the assessment involving the Risk-Based Framework (RBF) we will be using a stakeholder-driven, qualitative and semi-quantitative analysis during the site visit. To achieve a robust outcome from this consultative approach, we rely heavily on participation of a broad range of stakeholders with a balance of knowledge of the production unit. We encourage any stakeholders with experience or knowledge of the production unit to participate in these meetings."

이런 방문의 주요 목적은 생산 단위에 대한 관심으로 정보를 수집하고 이해관계자와 대화하는 것이다. RBF(Risk-Based Framework)와 관련된 평가 부분의 경우, 현장 방문 동안 이해관계자 중심, 정성 및 반정량 분석을 사용할 것이다. 이 컨설팅 접근법의 강력한 결과를 얻기 위해, 우리는 생산 단위에 대한 지식의 균형을 가지고 광범위한 이해관계자들의 참여에 크게 의존한다. 생산단위에 대한 경험이나 지식을 가진 이해당사자들이 이 회의에 참여할 수 있도록 장려한다."

**Stakeholders that do not wish or are not able to be interviewed at the site visit may send written information to the team. [CAR, 17.6.6.1]**

현장 방문 시 인터뷰를 원하지 않거나 참석이 불가능한 이해관계자는 심사팀에 서면을 발송할 수 있다.
<table>
<thead>
<tr>
<th>Identify if the following risks are currently or potentially applicable</th>
<th>Description of risk factor if present.</th>
<th>Describe any traceability, segregation, or other systems in place to manage the risk.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, produced within the same UoA.</td>
<td>Only 2 farmers included in the UoA. NO non-certified farmers within same UoA</td>
<td>Only certified algae is to be produced within the UoA.</td>
</tr>
<tr>
<td>동일한 UoA 내에서 생산된 동일하거나 외관이 비슷한 종 또는 수산물을 포함하여, 인증품과 비인증품이 혼합 또는 대체 가능성</td>
<td>UoA 내에는 2개 양식장만이 포함됨. UoA내에 비인증 양식장은 포함되어 있지 않음</td>
<td>기장물ㄹ산은 인증 해조류만 생산됨</td>
</tr>
<tr>
<td>b. The possibility of mixing or substitution of certified and non-certified product, type of production/harvest, including product of the same or similar appearance or species, present during production, harvest, transport, storage, or processing activities.</td>
<td>There is risk of mixing of certified and non-certified product during production, harvest, transport, storage, or processing activities. Because the production factory receives seamustard from certifed farmers and non-certified farmers</td>
<td>Kijang Mulsan will identify supplier information (farmer's information) through delivery notes and product batch with identification card. ASC-MSC certified seamustard will be operated physically and timely.</td>
</tr>
<tr>
<td>양식, 수확, 운송, 저장 또는 가공 활동 과정 중에서 동일한 또는 비슷한 외관의 제품 또는 종을 포함하여, 인증품과 비인증품이 혼합 또는 대체 가능성</td>
<td>양식, 생산, 운송, 저장 및 가공 활동 과정 중에 인증품과 비인증품의 혼합 러스크가 있음. 왜냐면, 가공 공장이 인증 양식장과 비인증 양식장으로부터 미역을 공급받음</td>
<td>기장물ㄹ산은 공급자 (양식업자) 정보를 운송문서와 식별카드를 통해 제품 빗지를 인한다. ASC-MSC 인증 미역은 물리적 시간적으로 구분해서 관리된다.</td>
</tr>
<tr>
<td>c. The possibility of subcontractors being used to handle, transport, store, or process certified products.</td>
<td>Dried seamustard during stored in the warehouse by Kijang Mulsan. No risk identified using subcontractors during handle, transport, store and processing.</td>
<td>Kijang Mulsan will separate package of certified seamustard. 기장 물산은 포장된 인증 미역 제품에 대해 분리한다.</td>
</tr>
<tr>
<td>인증품을 취급, 운송, 저장 또는 가공하는 과정에서 하청업체 사용 가능성</td>
<td>마른 미역은 기장물산에서 직접 저장 보관한다. 제품의 가공 과정 중에 하청업체를 사용하는 경우는 없다.</td>
<td>기장물ㄹ산은 공급자 (양식업자) 정보를 운송문서와 식별카드를 통해 제품 빗지를 인한다. ASC-MSC 인증 미역은 물리적 시간적으로 구분해서 관리된다.</td>
</tr>
<tr>
<td>d. Any other opportunities where certified product could potentially be mixed, substituted, or mislabelled with non-certified product before the point where product enters the Chain of Custody.</td>
<td>There is a possibility of mixing them in loading and unloading at ports, but they are identified and transported separately by fish farms.</td>
<td>Daily harvested seamustard will be transported to the production factory with identification of supplier's information.</td>
</tr>
<tr>
<td>인증 제품이 비인증품과 COC 추적성 관리 포인트에 진입하기 전에 혼합, 대체 또는 잘못 라벨링될 가능성</td>
<td>항구에서 미역을 하역 또는 운송할때 혼합 가능성이 있다. 그러나, 양식업자 정보에 따라 구별하여 식별 및 운송된다.</td>
<td>매일 수확되는 미역은 양식장 식별 정보와 함께 공장으로 운송된다.</td>
</tr>
</tbody>
</table>
Curriculum Vitae

PERSONAL DETAILS

Name
IKHWAN, BAE (Ryan, Bae)

Address
418-803, Dalim E-Pyunhansesang APT, 118,
Gileum-ro, Sungbu-gu, Seoul, 136-794, Korea

E-mail Address
ik_hwan_bae@dnvgl.com
bae.ryan@gmail.com

Date of Birth
25 November 1977

DNV Affiliate
DNVGL Business Assurance, Korea

Position
Business developer and auditor

Nationality
Republic of Korea

Languages
Korean (mother tongue)
English (fluent in speaking and writing)
Japanese (Basic)

Linkedin Profile
http://www.linkedin.com/pub/ryan-ikhwan-bae/21/2a3/402

Professional Qualifications

1. Registered MSC/ASC Lead Auditor since December 30, 2017 (DNV GL)
2. Registered FSC/PEFC Lead Auditor since January 28, 2008 (DNVGL, SGS)
3. Registered FSC/PEFC technical reviewer and lead auditor trainer since April 29, 2010 (DNVGL, SGS)
4. Registered FSC Trademark officer (FSC-STD-50-001-V1-2) since August 17, 2011
6. Qualified Advanced EMS Auditor training course by IEMA on 30 May 2008
7. Qualified Business Continuity Management systems auditor training course by IRA on Feb 2011
8. Qualified Project Management Professional credentials – PMP number 133345 on 06 May 2010
9. Qualified CBCI from BCI on 7th June 2011
10. Qualified ISO/IEC20000 auditor LAC on 9th August 2012

Auditor Status

<table>
<thead>
<tr>
<th>SCOPE</th>
<th>LEVEL</th>
<th>REG. DATE/NUMBER</th>
<th>REG. BODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSC/ASC Chain of Custody</td>
<td>Lead Auditor</td>
<td>30, December 2017</td>
<td>DNVGL Business Assurance</td>
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<tr>
<td>Forestry Chain of Custody (FSC/PEFC)</td>
<td>Lead Auditor Technical reviewer Lead Auditor trainer</td>
<td>28th January 2008</td>
<td>DNVGL Business Assurance Sweden Qualifor, SGS South Africa SGS Hong Kong Inc.</td>
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<tr>
<td>Forest Management</td>
<td>Local export for FSC</td>
<td>Aug 1, 2007</td>
<td>SGS Japan Inc.</td>
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<tr>
<td>Local export</td>
<td>FM standard</td>
<td>SGS Korea</td>
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<tr>
<td>ISO 9001:2000</td>
<td>Auditor trainee</td>
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<td>ISO 14001:2004</td>
<td>Auditor trainee</td>
<td>-</td>
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<tr>
<td>ISO 22000</td>
<td>Auditor trainee</td>
<td>-</td>
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<tr>
<td>BS 10012</td>
<td>Auditor trainee</td>
<td>-</td>
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</table>

Training courses attended
2. 22nd June 2006 : 6 sigma white belt training course.
4. 28th of January 2008 : SGS Qualifor Chain of Custody e-Learning Course
7. 8th July 2009, PEFC Chain of Custody training held in Tokyo, Japan
8. 8th July 2010, PEFC Chain of Custody Training held in Tokyo, Japan
9. 1st Oct 2010–30th May 2011, Project Management Professional (PMP) tutor training course 100 hours
10. 13th June 2011, PEFC Chain of Custody training held in Tokyo Japan
11. 23rd – 25th May 2012, BS 10012 lead auditor training course held in Seoul, Korea
12. 2nd – 3rd August 2012, ISO/IEC 20000 auditor training course held in Seoul, Korea
13. MSC online training, date (02/06/17)
14. ASC-MSC Seaweed Standard Environmental Training held in Beijing on 24th-25th October 2017
15. ASC-MSC Seaweed Standard Social Training held in Beijing on 26th October 2017
16. FSSC 22000 Internal Auditor Training Course (2018, June)

Academic Qualification

SungKyunKwan University, Korea

Major: Business Ad. & Mass Comm. & Journalism

Senior: March 2002

Candidate: February 2003

Present Employment

2018 – Present:

Food & Beverage Product Manager, DNV GL – Business Assurance Korea

- Product manager for F&B industry and Food Safety Certification program
- MSC / ASC Chain of Custody Auditor since 2017 and involved in MSC chain of custody certification audit projects

2013 – Present:

Business developer and auditor, DNV Assurance, Korea

- Product developer in Korea local market for management system certification and involved in marketing management responsibility.

- Forest Certification product manager in Korea including audit, training, management of certification service
- Business Continuity Management System Auditor and trainer

Previous Employment
2010 – 2012:
BCMS (BS25999-2:2007 and ISO 22301:2012) country product manager and auditor, SGS Korea Co., Ltd. / System and Service Certification
- Involved in BCMS (BS25999-2:2007) audit project as auditor trainee and translators and participated several certification audit projects
- Involved in BCMS certification audit service and support BCMS training materials and translation of Good Practice Guide (BCI standard) in Koreans.

2007 – 2012:
FSC/PEFC (Forestry certification) product manager, SGS Korea Co., Ltd. / System and Service Certification
- Responsible for overall control of assessment, training, administration and marketing in the area of FSC and PEFC certification service (Forest Management / Chain of Custody)
- Acting as registered Lead Auditor for the assessment against FSC and PEFC Chain of Custody audit since 2007
- Korea product manager for Forest Management (7 projects) and Chain of Custody certification projects (2012 year end: 151 projects registered total)
- Conducted public chain of custody implementation training as tutor (total: 7 / twice a year)

2007-2012
FSC Forest Management Local export, SGS Japan Inc / Qualifor department
- Support Forest Management Certification auditor for audit in Korea regarding consultation of local forestry laws and regulation
- Developed Local FSC Forest Management standard (Checklist) including stakeholder consultation.
- Marketing support for local forest industries and conducted industry seminars and marketing campaign

2006 – 2007
Marketing executive, Sales & Marketing team, SGS Korea Co., Ltd. / System and Service Certification
- Responsible for Local marketing for the system certification services (ISO9001, ISO1400 TS16949, CE MDD, etc) include marketing research and holding seminar
- Involved in IECQ HSPM development for SGS S&SC Korea Co., Ltd. as a task force team member, marketing staff and coordinator.

2003 – 2006
Promotion manager of Marketing department, headquarter, LOTTERIA Co., Ltd.
- Responsible for the development of monthly promotion event and coordination of co-event promotion.
- Responsible for marketing research including Competitor analysis and New product development.

2003 – 2003
Store manager of Fast food franchise restaurant, “Lotte mart word LOTTERIA”, LOTTERIA Co., Ltd.
- Responsible for overall control of fast food restaurant including management of employment, budget, sales
Seung Hyun Kwak
Sustainability and Supply Chain Management Service Manager

Curriculum Vitae:

Summary of Professional Experience:
Seung Hyun possesses an experience in Environmental & Safety engineering and management system. The experience covers development of EHS management system and certification to ISO 14001 and OHSAS 18001. It also includes audit of Environmental Management System as well as Safety Management system.
His core competences includes audit, assurance and training on EHS, GHG, Sustainability.
Seung Hyun has been providing assurance services on GHG emissions and corporate reporting.
He conducted the validation and verification of CDM projects as well as Corporate GHG Inventory Verifications for various industries such as Oil refinery, Petrochemicals, Cement, Power, Construction and general manufacturing companies. In addition to Carbon verification, he has experience in the verification of water footprint of an organization and/or a product.
Seung Hyun has provided many assurance engagement on corporate sustainability reports and greenhouse gas emissions for more than 100 companies. The audit on social accountability including labor and human right is one of his key expertise. Seung Hyun has conducted more than 100 social audits.

Academic and Professional Attainment:
Master Business Administration, Korea University Business School, Business administration, 2008
Bachelor of Engineering, Konkuk University, Environmental Engineering, 1996

Present Position:
- Responsible for Sustainability and Supply Chain Management Service in Asia-Pacific Region.
- Key Customer Manager
- Contract Administrator

<Qualification>
GHG Auditor, DNV GL
GHG Verifier, Korea Ministry of Knowlidge and Economy
GHG and Energy Auditor, Korea Ministry of Environment,
ACA Auditor (GHG Verifier, ACA (Airport Carbon Accreditation) Program)
Sustainability Report Verifier/Project Manager/Technical Reviewer, DNV GL,
CR Assessment and Rating Asessor, DNV GL
Environmental Performance Labelling (Type 3 Label) Auditor, Korea Ministry of Environment
Carbon Footprint Labelling (Type 3 Label) Auditor, Korea Ministry of Environment
SA8000 Auditor, SEDEX Auditor, DNV GL
Trainer of social auditor, DNV GL
RBA Lead Auditor, RBA
Registered Environmental Engineer(Air Quality), Human Resources Development Service of Korea
Registered Environmental Engineer (Water Quality), Human Resources Development Service of Korea

Professional Training
2018: Information Security Training
2018: Korean Trade Secret Laws
2017: Information Security Training
2017: GHG Verifier Refresher course (Waste)
2017: HSE in DNV GL - Travel safety
2017: HSE in DNV GL - Incident reporting
2017: Basic Health, Safety and Environment, web
2015: DNV GL Code of Conduct – An introduction to expected conduct and behavior in daily business
2015: 2010v DNV GL’s approach to Anti-Corruption and Anti-Trust – An Introduction
2015: Sexual Harassment Prevention Training
2014: Train The Trainer for Social auditor training course including SMETA
2014: WE in DNV GL, web
Seung Hyun Kwak
Sustainability and Supply Chain Management Service Manager

Curriculum Vitae:
- Market research
- Publicity
- Business development of new products (GHGs including CDM Project, ISO 14064, CSR Report verification, ISO 26000, ISO/IEC 20000, ISO 20000 etc)
- Development of new accounts
- Analysis of sales performance

< Technical activities >
- CDM Validation (Daegu Bangcheon-ri Landfill gas CDM Project)
- GHG emission verification; Observation (LG Philips LCD Co., Ltd)
- Assistant tutor for CSR training
- Tutor of GHG Training for Marketing & Sales Managers in Asia
- Development GHG Course materials for Marketing & Sales Managers

Hyundai Engineering & Construction Co., Ltd 1996, 2004

< Company Profile >
General contractor of Engineering and Construction,
Project management, Research and Development, Design, Procurement, Commissioning, construction activities
relating to Civil and Architectural works, Oil Chemical and Petrochemical plant, Hydromat, Thermal and Nuclear
To control and execute projects of Oil, Gas, Chemical, Thermal and Nuclear power plant and industrial facilities.

**Activities**
- General HSE management of overseas projects
- Implementation of HSE (Health, Safety and Environment) Management System in accordance with ISO 14001, OHSAS 18001
- Development of KOSHA 18001 System (Korea Occupational Safety and Health Management System)
- Development of Integrated Management System (Health, Safety and Environment)
- Carrying out HSE audits on Domestic and Overseas Projects
- Development of Project Business Continuity plans, Corporate Business Continuity Plan
- Designing and Conducting Emergency response and recovery exercise
- Provision of HSE training to local staff in overseas projects
# C. V.

## 一、 Personal Information

<table>
<thead>
<tr>
<th>Chinese Name</th>
<th>English Name</th>
<th>Sex</th>
<th>Birthday</th>
</tr>
</thead>
<tbody>
<tr>
<td>陳詩璋</td>
<td>Shin-Chang, Frank, Chen</td>
<td>□ Male</td>
<td>July 20, 1974</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Female</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>Telephone</th>
<th>Mobile Phone</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>338 6F, No. 23, Nanshan 4th St., Luchou Dist., Taoyuan 38, Taiwan (R.O.C.)</td>
<td>886-3-2123200</td>
<td>886-9-53588507</td>
<td><a href="mailto:frank@obic.com.tw">frank@obic.com.tw</a></td>
</tr>
</tbody>
</table>

## 二、 Education

<table>
<thead>
<tr>
<th>School</th>
<th>Major</th>
<th>Degree</th>
<th>Graduate Year</th>
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</thead>
<tbody>
<tr>
<td>National Taiwan Ocean University</td>
<td>Department of Aquaculture</td>
<td>Ph. D. Candidates</td>
<td>Not yet</td>
</tr>
<tr>
<td>National Taiwan Ocean University</td>
<td>Institute of Fisheries Economic</td>
<td>Master of Agriculture</td>
<td>2000/06</td>
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</table>

## 三、 Work Experiences

<table>
<thead>
<tr>
<th>Company/Department</th>
<th>Position</th>
<th>Year</th>
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<tbody>
<tr>
<td>Taiwan Fisheries Economic Development Association, Taiwan</td>
<td>Secretary-general</td>
<td>From 2010/07 ~ now</td>
</tr>
<tr>
<td>Seafood Traceability and Inspection Center, National Taiwan Ocean University, Taiwan</td>
<td>Audit team Leader</td>
<td>From 2010/01 ~ now</td>
</tr>
<tr>
<td>Agriculture Certification Center, National Chiayi University, Taiwan</td>
<td>Leader Auditor</td>
<td>From 2010/01 ~ now</td>
</tr>
<tr>
<td>GLOBALG.A.P. Working Technology Team, Taiwan Accreditation Foundation (TAF), Taiwan</td>
<td>Technology Council</td>
<td>From 2018/01 ~ now</td>
</tr>
<tr>
<td>Aquaculture Youth Improving Program, Fisheries Bureau, Council of Agriculture, Taiwan</td>
<td>Aquaculture Youth Advisor</td>
<td>From 2017/01 ~ now</td>
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### Experiences

<table>
<thead>
<tr>
<th>Organization &amp; Contact Details</th>
<th>Subject Covered</th>
<th>Date</th>
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<tbody>
<tr>
<td>Saury Fishery MSC Working Group, Fisheries Bureau Council of Agriculture, Taiwan</td>
<td>Technology Council</td>
<td>2013/01 - 2013/12</td>
</tr>
<tr>
<td>Research for fishery food safety system, risk management, Aquaculture Risk Analysis Group, Taiwan Aquaculture Fisheries Development Foundation, Taiwan</td>
<td>Technology Council</td>
<td>2009/01 - 2011/12</td>
</tr>
<tr>
<td>Organic Program, Organic Certification Organization Co., Ltd., Japan</td>
<td>Auditor</td>
<td>From 2016/12 - now</td>
</tr>
<tr>
<td>Exemplar Global (RABQSA)/Food Safety Program</td>
<td>Leader Auditor</td>
<td>From 2005/04 - now</td>
</tr>
<tr>
<td>Food Safety Program, TQCS International, Australia</td>
<td>Leader Auditor</td>
<td>From 2005/12 - now</td>
</tr>
<tr>
<td>FSSC22000/ISO22000 Lecturer, JLB, Australia</td>
<td>Lecturer</td>
<td>From 2016/12 - now</td>
</tr>
<tr>
<td>Lecturer, Department of Food Science, Jingkuo Health and Management College, Taiwan</td>
<td>Lecturer</td>
<td>2007/09 - 2009/07</td>
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### Training Record:

<table>
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<tr>
<th>Date</th>
<th>Duration</th>
<th>Organization &amp; Contact Details</th>
<th>Subjects Covered</th>
<th>Sponsor Verification</th>
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<tbody>
<tr>
<td>24-25/07/2017</td>
<td>18 hr</td>
<td>SGS, Taiwan</td>
<td>Implementing SQF Systems Training</td>
<td>SGS Taiwan Terry Liao <a href="mailto:Terry.Liao@sgs.com">Terry.Liao@sgs.com</a></td>
</tr>
<tr>
<td>26/06/2017</td>
<td>1 hr</td>
<td>Foundation FSSC 22000</td>
<td>Requirements for FSSC 22000 version 4.1 upgradt audits</td>
<td>Jules Rojer, Technical advisor</td>
</tr>
<tr>
<td>10/04/2017</td>
<td>1 hr</td>
<td>Foundation FSSC 22000</td>
<td>Requirements for FSSC 22000 version 4.0 upgradt audits</td>
<td>Jules Rojer, Technical advisor</td>
</tr>
<tr>
<td>27-29/06/2016</td>
<td>18 hr</td>
<td>JLB and TQCSI Mr. Craig Bates</td>
<td>Food Safety, FSSC 22000, Lead Auditor Training Course</td>
<td>JLB and TQCSI Mr. Craig Bates</td>
</tr>
<tr>
<td>11/11/2015</td>
<td>2 hr</td>
<td>TQCSI Taiwan office Miss Annie Lee TEL: +886-3-3580060 FAX: +886-3-3580076</td>
<td>TQCSI ISO 9001 2015 Transition Course and online test</td>
<td>TQCSI Taiwan office Miss Annie Lee TEL: +886-3-3580060 FAX: +886-3-3580076</td>
</tr>
<tr>
<td>Date</td>
<td>Duration</td>
<td>Organization &amp; Details</td>
<td>Event Description</td>
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</table>
| 20/10/2014 | 2 hr     | Da-Kuan Training Business Inc.  
1F, No.107, Minfu 2nd St.,  
Taoyuan City, Taoyuan County,  
330  
Mr. Steven Kuo  
sk0408@ms99.hinet.net | Food Additives Training  
Da-Kuan Training Business Inc.  
1F, No.107, Minfu 2nd St.,  
Taoyuan City, Taoyuan County,  
330  
Mr. Steven Kuo  
sk0408@ms99.hinet.net |
| 13/08/2014 | 6 hr     | Food Industry Research and Development Institute  
No. 331, Shihping Rd.,  
Shinching city, Taiwan,  
Mr. Liaw Chin-Chen  
+886-3-5223191 | CAS certification: Food safety and GHP Training  
Food Industry Research and Development Institute  
No. 331, Shihping Rd.,  
Shinching city, Taiwan,  
Mr. Liaw Chin-Chen  
+886-3-5223191 |
| 05-06/09/2013 | 20 hr | National Taiwan Ocean University  
Mr. Nan Fan-Hwa  
No.2, Pei-Ning Rd., Keelung,  
Taiwan,  
fhnan@mail.ntou.edu.tw  
+886-2-24622192#2910 | ISO/IEC 17065  
Seafood safety and traceability; (part 1)  
National Taiwan Ocean University  
Mr. Nan Fan-Hwa  
No.2, Pei-Ning Rd., Keelung,  
Taiwan,  
fhnan@mail.ntou.edu.tw  
+886-2-24622192#2910 |
| 07-08/09/2013 | 20 hr | National Taiwan Ocean University  
Mr. Nan Fan-Hwa  
No.2, Pei-Ning Rd., Keelung,  
Taiwan,  
fhnan@mail.ntou.edu.tw  
+886-2-24622192#2910 | ISO/IEC 17065  
Seafood safety and traceability; (part 2)  
National Taiwan Ocean University  
Mr. Nan Fan-Hwa  
No.2, Pei-Ning Rd., Keelung,  
Taiwan,  
fhnan@mail.ntou.edu.tw  
+886-2-24622192#2910 |
| 13/08/2013 | 6 hr     | National Chiayi University & Fishery Breau  
Mr. Chen Jie-Chin  
No.300 Syuefu Rd., Chiayi City,  
60004, Taiwan (R.O.C.)  
chencc@mail.nctu.edu.tw  
+886-5-8717000 | EU regulations and sanitation for aquaculture operations  
National Chiayi University  
Mr. Chen Jie-Chin  
No.300 Syuefu Rd., Chiayi City,  
60004, Taiwan (R.O.C.)  
chencc@mail.nctu.edu.tw  
+886-5-8717000 |
| 12/06/2012 | 1 hr     | RABQSA  
Mary Rehm  
Psychometrician  
PO Box 602  
Milwaukee, WI  
53201-0602  
USA & Canada  
Toll Free: 1-888-722-2440  
1-414-272-3937 extension 7625  
mrehtm@rabqsa.com | Pilot Examination Process for RABQSA e-based exams,  
RABQSA  
Mary Rehm  
Psychometrician  
PO Box 602  
Milwaukee, WI  
53201-0602  
USA & Canada  
Toll Free: 1-888-722-2440  
1-414-272-3937 extension 7625  
mrehtm@rabqsa.com |
| 21-22/07/2011 | 16 hrs | SGS Japan Inc.  
Miss Yume Aoshima  
SGS Japan Inc. | 1. JAS standard  
2. Production process management director and  
SGS Taiwan/SSC  
Mr. Linus Chang  
TEL: +886-4-26311838 |
<table>
<thead>
<tr>
<th>Date</th>
<th>Duration</th>
<th>Event Details</th>
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</thead>
</table>
| 05/06/05/2010 | 12hrs    | SGS Taiwan Ltd. Mr. David Huang 136-1, Wu Kung Rd., Wuku Industrial Zone, Taipei, Taiwan  
TEL: + 886 2 2299 39 39  
Fax: + 886 2 2298 91 56  
SGS Taiwan Ltd.  
No. 10/INE1025/0501  
Mr. David Huang  
TEL: + 886 2 2299 39 39  
Fax: + 886 2 2298 91 56 |
| 29/30/10/2009 | 16hrs    | Taiwan Accreditation Foundation (TAF)  
Mrs. Chang Man-Hui  
Tel: +866-2-2809 0828  
Fax: +886-2-2809 0797  
www.tafv.org.tw  
2. GLOBALGAP WORKSHOP & Training  
3. GLOBALGAP Fruit and Vegetables Version 3.1 |
| 17-19/07/2009 and 24-26/07/2009 | 50hrs | Chinese Fertilizer Association  
250 Kuo Kuang Rd., Taichung 402, Taiwan R.O.C.  
Tel: +866-4-22340373 ext 3407  
Organic products certification and leader auditor training |
| 20-22/05/2009 | 21hrs    | SGS Taiwan/SSC  
Mr. Ivor Lin  
TEL: +866-4-26311838  
FAX: +866-4-2631-2002  
Ivor.Ling@sgs.com  
ISO28000 supply chain safety management system and leader auditor training course |
| 26/12/2008    | 8hrs     | TQCSI Taiwan office  
Miss Annie Lee  
TEL: +866-3-3580060  
FAX:+866-3-3580076  
Quality/ISO 9001 Leader Auditor Course  
TQCSI Taiwan office  
Miss Annie Lee  
TEL: +886-3-3580060  
FAX:+866-3-3580076 |
Aquaculture license number: #123 (Mr. Yeongtae, Kim)  
Complex aquaculture (floating rope type)  
Location of the site: Daebyeon-ro, Gijang-eup, Gijang-gun, Busan, Republic of Korea  
(면적: 100,000 m²)

Aquaculture license number: 139호 (Mr. Jaehum, Jung)  
Complex aquaculture (floating rope type)  
Location of the site: Sirang-ri Gijang-eup, Gijang-gun, Busan, Republic of Korea  
(面積: 60,000m²)