

Aquaculture Stewardship Council and Marine Stewardship Council

ASC-MSC Seaweed (Algae) Audit Announcement Template
[Surveillance]

Version 1.0 (Issued 8 December 2017)



Aquaculture
Stewardship
Council



Scheme documents:

ASC-MSC Seaweed (Algae) Standard

ASC-MSC Seaweed (Algae) Certification and Accreditation Requirements

This document is to be cited as:

ASC-MSC Seaweed (Algae) Audit Announcement Template v1.0

Versions issued

Version no.	Date	Description of amendment
1.0	8-Dec-17	N/A - new document



The Aquaculture Stewardship Council and the Marine Stewardship Council "ASC-MSC Fishery/Farm Audit Announcement Template" and its content is copyright of "Aquaculture Stewardship Council and Marine Stewardship Council" - © "Aquaculture Stewardship Council" "Marine Stewardship Council" 2017. All rights reserved.

Production unit details

Name of the production unit	Gijang Sustainable Seaweed Network 기장 지속가능 해조류 네트워크
Target species common name/s	Undaria pinnatifida (Harvey) Suringar - Wakame 미역 - 와카메 Kelp 다시마 (This species is to added and assessed in the certification scope in this surveillance audit) (다시마는 금번 사후관리 심사 중에 인증범위에 포함되며, 심사될 것임)
Species Latin name	Undaria pinnatifida (Harvey) Suringar 온다리아 피나티피다 (허버) 수린가 Saccharina japonica 사카리나 자포니카 (This species is to added and assessed in the certification scope in this surveillance audit) (다시마는 금번 사후관리 심사 중에 인증범위에 포함되며, 심사될 것임)
Production system	Off-shore aquaculture / artificial seedlings collected from existing farm / Floating rope method 바다 양식 / 인공 채묘에 의한 종묘 생산 / 연승수하식 양식
Location of the production unit	Gijang Sustainable Seaweed Network : 30-16, Sinpyeong-gil, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea 기장지속가능해조류네트워크 : 대한민국 부산광역시 기장군 일광면 신평길 30-16 [Member Farmers] 회원 양식장 - - Mr. Yeongtae (Address : 585-1, Gijanghaean-ro, Gijang-eup, Gijang-gun, Busan, Republic of Korea) / Gijang County - Aquafarming License No#123 / Farm Size 100,000m2 / Location of the site : Daebyeon-ri, Gijang-eup, Gijang-gun, Busan, Republic of Korea 김영태 (부산광역시 기장군 기장을 기장해안로 585-1) / 기장군 양식면허 123호 / 100,000m2 부산시 기장군 기장을 대번리 - Mr. Jaehong, Jung (Address : 17, Gongsu 3-gil, Gijang-eup, Gijang-gun, Busan, Republic of Korea) / Gijang County - Aquafarming License No# 139 / Farm Size 60,000 m2 / Location of the site : Sirang-ri Gijang-eup, Gijang-gun, Busan, Republic of Korea 정재홍 (부산광역시 기장군 기장을 공수3길 17) / 기장군 양식면허 139호 / 60,000 m2 / 부산광역시 기장군 기장을 시랑리) The following 2 farms are added and will be assessed during this surveillance audit. 하기 2개 양식장이 사후관리심사 시 추가되었음 - Mr. Yeongtae Kim (Address : 585-1, Gijanghaean-ro, Gijang-eup, Gijang-gun, Busan, Republic of Korea) / Gijang County - Aquafarming License No#206 / Farm Size 45,000m2 (4.5ha) / Location of the site : Hak-ri, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea 김영태 (부산광역시 기장군 기장을 기장해안로 585-1) / 기장군 양식면허 206호 / 45,000m2 (4.5 ha) / 양식장 위치: 부산시 기장군 일광면 학리 - Mr. Jaehong, Jung (Address : 16-1, Idong 1-gil, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea) / Gijang County - Aquafarming License No# 178 / Farm Size 50,000 m2 (5 ha) / Location of the site : Dongbaek-ri, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea 이정명 (부산광역시 기장군 일광면 이동1길 16-1) / 기장군 양식면허 178호 / 50,000 m2 (5ha) / 부산광역시 기장군 기장을 일광면 동백리 Mr. Jeong Myeong Lee has been participating in the GSSN from the beginning and his first farm was in the Unit of Assessment. His another farm is added to the scope of certification. 김영태 양식어민은 기장지속가능해조류네트워크에 인증 초기부터 참여하고 있으며, 그의 첫번째 양식장은 심사담위에 포함되어 있음. 그의 다른 양식장이 인증 범위에 포함됨. Ms. Euna, Yoo (Address : 26-14, Muiyang 2-gil, Gijang-eup, Gijang-gun, Busan) / Gijang County - Aquafarming License No#152 / Farm Size 30,000 M2 / Locations of the site : Sirang-ri Gijang-eup, Gijang-gun, Busan, Republic of Korea) has decided to drop out of the certification from this surveillance. Therefore total number of farms in UoA are 4.
Stock Region	N/A 해당 없음
Receiving water body	Gijang County Coast of the East Sea from South Korea EEZ. 대한민국EEZ, 동해 기장군 인접해역
Clients part of the production unit	Mr. Min Soo, Kim (Chairman of Gijang Sustainable Seaweed Network) 김민수 대표(기장 지속가능 해조류 네트워크 대표)
Facilities	Sea : Aquaculture equipment, rope, stone anchor, float, boat, a pumping equipment and a rubber hose for washing 해양 : 양식 기자재, 로프, 무게추, 부자, 운송선, 팜프 및 고무호스 Land : cutter, a hot-water boiler, drying field 육지: 절단기, 보일러, 건조장
Unit of Certification (if different)	UoC includes Gijang Sustainable Seaweed Network and UoA (Seaweed aquafarms). 인증 단위는 기장 지속가능 해조류 네트워크와 심사 단위를 포함함 (해조류 양식장) Seaweed processing factory Gijang Mulsan Co., Ltd. (Processing factory) which buys the certified products is certified ASC Chain of Custody. Gijang Mulsan is a member of Gijang Sustainable Seaweed Network. 인증품을 구매하여 가공하는 기장물산은 ASC Chain of Custody 인증을 받음. 기장물산은 기장지속가능해조류네트워크의 멤버임.
Harvest season	December to June 12월 부터 6월까지
Management system	Two levels of the government controls are applied. One from the central government, another from local government. The Ministry of Maritime Affairs and Fisheries (MMAF), being the central authority, and local governments in the provincial, or city level administer fisheries conservation, management and development. The Korean Government has introduced a fishermen-oriented co-management system for more effective implementation of responsible fisheries. Under this system, an organization of fishermen, such as a fishery corporation or a group of fishermen in villages set up self-regulation according to the fishery-related laws and regulations with endorsement of the local government. The Fisheries Act requires any person who intends to cultivate seaweeds, shellfish or other marine animals (by demarcating specified waters and utilizing the bed of the waters or providing other facilities under water) to obtain a license from the local government. Other categories of cultivating fisheries include mixed cultivating fisheries, cooperative cultivating fisheries and village cultivating fisheries. Any license should be issued within the limits of the fishing ground utilization and development plan. According to the Act, MMAF shall determine, inter alia, the water depth of the fishing grounds (exclusive of water depths of cooperative and village cultivating fisheries, which are to be determined by Presidential Decree), limits of fishing zones and distances between fishing grounds, methods of fishing ground equipment, cultivation, catching or gathering, and matters concerning cultivated products. The Act prescribes the order of priority for the issuance of licenses, specifies the grounds for refusal and revocation of licenses, and stipulates that licenses may be subject to restrictions or conditions if necessary, inter alia, for the breeding and protection of fishery resources or any other public interest. Licenses are generally valid for a period of ten years. The farm is managed by individual local farmer with aquafarming license issued by local government. Individual local farmers in Gijang County with aquaculture permit are eligible to participate in the associations. 2개 단계의 정부 통제가 이루어짐. 중앙 정부와 지방정부로 나누어짐. 중앙정부의 해양수산부와 지방 정부 수준에서 수산물의 보전, 관리, 개발에 관여하고 있다. 또한 한국정부는 어업인 중심의 공동 관리 시스템을 도입하여, 책임있는 어업의 효과적인 실행을 추구하고 있다. 이 시스템에서는 어민 조직, 즉 수산업 협동조합 또는 마을의 어촌계 등을 통해 수산업 관련 법률 및 지역정부의 규제 법안 등을 자체 준수하도록 노력하고 있다. 수산업법에 따라 해조류, 갑각류 또는 기타 해양 동물 (특정 수역의 경계를 정하고 수역을 활용하거나 수중에 다른 시설을 제공함)을 경작하고자하는 사람에게 지방 정부의 면허를 취득하도록 요구된다. 다른 종류의 수산 양식에는 복합 양식 어업, 협동 양식 어업 및 마을 양식 어업이 포함된다. 모든 면허는 어장 이용 및 개발 계획의 한계 내에서 발행되어야 한다. 국가법률에 따라, 해양 수산부는 그 중에서도 어장 수심 (대통령령으로 정하는 협동 조합 및 마을 경작 어업의 수심을 제외함), 어장의 한계 및 각 어장 간의 거리, 어업장비, 양식, 어획 또는 포집 그리고 양식 수산물 관련 사항을 결정한다. 이 법은 면허발급 우선순위 순서를 정하고, 면허 거부 및 폐지의 근거를 명시하며, 면허는 수산자원이거나 기타 공공의 이익을 위하여 필요한 경우 기간 동안 제한이나 조건의 대상이 될 수 있다고 규정하고 있다. 면허증은 일반적으로 10년 동안 유효하다. 양식장은 지역 정부에서 발행한 양식면허를 보유하고 있는 개인 양식업자들에게 의해 관리된다. 양식 면허를 보유하고 있는 양식업자만이 협의회 기구에 참여 가능하다.

	<p>Gijang Sustainable Seaweed Network (hereafter : GSSN) is an entity for the association of local sea mustard farmers located at Gijang County in Republic of Korea. It includes processing factory named Gijang Mulsan Co. Ltd. in the same region. GSSN is voluntary membership organization and operates in accordance with the agreed articles of association. It is consultative group with sea-mustard farmer who holds aquaculture license from Gijang Country Local Government office. The articles of association includes members requirements and farming operation practices. Gijang Mulsan Co. Ltd. developed and implemented quality management system for the production of dried seaweed products. Product specification, inspection, testing, internal audit, management review procedures is defined.</p> <p>GSSN has developed written procedures for management system of the organizations. It has details for process and management contents. Responsibilities of member farmers are defined. Management system includes processes for decision making, internal audit and management review, monitoring of operation results. The association regularly reviews and makes improvements to the current system.</p> <p>기장 지속가능 해조류 네트워크 (이하 : GSSN) 대한민국 기장군 지역의 해조류 양식 어가들의 협의체 조직이다. 그 안에는 기장물산(주)라는 가공 공장을 포함하고 있다. GSSN은 자발적인 회원제 조직이며 상호 합의에 근거한 정관에 따라 운영된다. 회원들은 기장군에서 양식업 면허를 보유하고 있는 개인들로 구성되어 있다. 협의 정관에 따르면 회원들에 대해 양식장 관리에 대한 요구사항들을 정하고 있다. 기장 물산은 해조류 가공품을 생산하기 위한 품질관리시스템을 운영하고 있으며, 제품 규격, 검사, 테스트, 내부심사 및 경영 검토 등이 정의 되어 있다. 기장 물산은 해조류 가공품을 생산하기 위한 협의 관리를 위한 문서화된 절차에는 주요 프로세스와 관리 포인트가 정의 되어 있다. 회원 양식업자의 책임이 정의 되어 있다. 경영 시스템에는, 의사결정, 내부심사, 경영 검토, 운영 성과의 검토 등에 대한 절차를 포함하고 있다. 협회는 정기적인 검토를 통해 현재 시스템의 개선을 결정한다.</p>
Seaweed category	<p>Bill Cultivation at sea: Supply of seed from wild stocks NOT required or negligible / Bill 바다양식 : 인공 채묘, 야생 자원 필요하지 않거나 무시할만한 수준</p>
Statement that the production unit is within scope	<p>A clear statement from the CAB that the fishery entering assessment meets the scope requirements in Section 2 of the Seaweed Standard.</p> <p>Harvesting or farming activities are only eligible for certification if the target species is a seaweed. Target species is Sea mustard and Kelp which are seaweed 목표 수종은 미역과 다시마로서 해조류임.</p> <p>The Standard applies globally to all locations and scales of operations, including both harvesting of wild stocks and production from aquaculture systems. Scope of this assessment is production from aquaculture system. 심사의 범위는 양식 시스템의 생산에 해당됨.</p> <p>The Standard applies to seaweed production units only. Other production units in scope for assessment under the existing ASC or MSC standards are in no way affected by the Seaweed Standard. The audit applies only the production of seaweeds. 심사는 해조류 생산에 적용됨.</p> <p>Harvesting or farming activities involving the introduction of alien (i.e. non-native) species are not eligible for certification, unless: The introduction occurred at least 20 years prior to the date the application is made for assessment against the Seaweed Standard, or The alien species is cultured in on-land facilities that are completely separated from the aquatic environment. Production of Sea mustard and Kelp in the area has been in operation for more than 40 years 해당 지역의 해조류 양식은 40년 이상의 운영 역사를 가지고 있음.</p> <p>Organizations seeking certification shall have been in operation for at least 12 months, or one harvest cycle, whichever is less. Farms has been in operation in the area last 12 months and had more than one harvest cycle. 양식장들은 과거 12개월 이상 운영해왔으며, 한번이상의 수확을 했음.</p> <p>Organizations seeking certification shall have available records of performance data covering the periods of time specified in the Standard. GSSN and farms maintain the performance data. 기장지속가능해조류네트워크 및 양식장들은 성과데이터를 보유하고 있음.</p> <p>Harvesting or farming activities which use mutagenic, carcinogenic or teratogenic pesticides, or any other chemicals that persist as toxins in the marine environment or on the farm or farmed seaweeds, are not eligible for certification. No chemicals which persist as toxins in the marine environment are used in the farm 양식장은 해양 환경에 잔류하는 독성이 있는 화학 물질을 사용하지 않음 In cases where the UoA and UoC include a number of vessels/ farms</p>
Production unit operators	<p>[UoA] Mr. Yeongtae, Kim has 2 farms, 2 vessels and 1 kelp drying field 김영태 양식 어민의 경우 2곳의 양식장이 인증범위에 포함되며, 2대의 선박과 1곳의 다시마 건조장을 운영하고 있음 Mr. Jaehong Jung has 1 farm, 1 vessel. 정재홍 양식 어민의 경우 1개 선박, 1개 양식장 운영 중 Mr. Jeong Myeong Lee has 1 farm, 1 vessel and 1 kelp drying field. 이정명 양식 어민의 경우 1곳의 양식장, 1대의 선박과 1곳의 다시마 건조장을 운영하고 있음.</p> <p>[UoC] Gijang Mulsan Co. Ltd. has production factory including facilities for washing, drying, cutting, packaging of dried seaweed. 기장 물산은 건조 해조류 제품 생산을 위한 건조기, 절단기, 포장기 등 보유</p>
Information to identify Micro family business	<p>Recognition of Micro Family business is not applicable. 소규모 가족 비즈니스에 해당되지 않음.</p>
Harvest/production data	<p>Mr. Yeongtae Kim's Farm 1: Undaria pinnatifida (Harvey) Suringar - Wakame 140 tonne, Kelp 80 tonne Mr. Jaehong Jung' Farm: Undaria pinnatifida (Harvey) Suringar - Wakame 90 tonne Mr. Yeongtae Kim's Farm 2: Undaria pinnatifida (Harvey) Suringar - Wakame 80 tonne, Kelp 50 tonne Mr. Jeong Myeong Lee's farm: Undaria pinnatifida (Harvey) Suringar - Wakame 100 tonne, Kelp 60 tonne</p> <p>김영태 양식어민 양식장 1: 미역 140톤, 다시마 80톤 정재홍 양식어민 양식장: 미역 90톤 김영태 양식어민 양식장 2: 미역 80톤, 다시마 50톤 이정명 양식어민 양식장: 미역 100톤, 다시마 60톤</p>
History of the Production unit	<p>GijangMulsan Co. Ltd. was established in 1993. It is a seaweed-finished product manufacturing plant and has washing, heating, drying, powdered, and packaging in its process.GijangMulsan Co. Ltd. is purchasing Sea-mustard directly from local farmers who have legal licenses for sea mustard aquafarming operation. Gijangmulsan supported the establishment of the "Gijang Sustainable Seaweed Network". This seaweed farmers association has 5 farmers and production farms. Many farmers produce 2 species such as Undaria pinnatifida (Harvey) Suringar - Wakame and Kelp. After Undaria pinnatifida (Harvey) Suringar - Wakame is produced and harvested in January to February, seedling of Kelp is transplanted. Grown Kelp is harvested in May to June.</p> <p>기장물산은 1993년에 설립되었다. 해조류 가공 제품의 생산을 위한 공장으로서, 세척, 가열, 건조, 분쇄, 포장 공정을 보유하고 있다. 기장 물산은 기장 지역에서 양식 면허를 통해 미역을 생산하고 있는 지역 어민들로부터 직접 원료를 구매하고 있다. 기장물산은 "기장 지속가능 해조류 네트워크"의 설립을 지원했다. 미역 양식업자 협의체에는 5명의 양식어민과 미역 가공 공장을 포함하고 있다. 다수의 양식어민들이 미역과 다시마 2개 종의 해조류를 양식하고 있으며, 미역을 1월~2월에 수확생산하고 다시마 종묘를 이식한 후 5월~6월 중 수확하게 됨.</p>
Other production unit in the area	<p>Other production units in the area are seaweed aquafarms which mainly producing sea mustard and kelp. 지역의 다른 생산단위들은 해조류 양식장임. 주로 미역과 다시마를 생산하고 있음.</p>
Main commercial market	<p>Korea domestic buyers as well as overseas buyers 대한민국 국내 시장 및 해외 수출 시장</p>
Any other information the CAB wishes to provide (including any specific issues within the production unit that need to be highlighted)	<p>N/A 해당 없음</p>

Audit details

<p>Conformity Assessment Body (CAB)</p>	<p>DNV GL Business Assurance 디엔브이지엘 비즈니스 어슈어런스 Che King Lee 처킹 리 Name of first point of contact for the assessment (if different to the assessment team leader). Seung Hyun Kwak 광승현 msc.fisheries.global@dnvgl.com Phone Number +82 2 724 841 Mailing address 18F, Kyobo Bldg., 1, Jongno, Jongro-gu, Seoul, 03154 Republic of Korea 대한민국 서울특별시 종로구 종로 1, 교보빌딩 18층 우편번호 03154</p>
<p>Client</p>	<p>Gijang Sustainable Seaweed Network Mr. Minsoo, Kim 김민수 Chairman of Gijang Sustainable Seaweed Network, Director of Gijang Mulsan Co. Ltd. 기장지속가능해조류 네트워크 회장, 기장물산 이사 Email address 이메일 주소 : ik_jang2@daum.net Phone Number 전화 번호 : Tel +82 51 722 0238 / Mobile + 82 10 5499 6399 Mailing address 우편 주소 : 30-16, Sinpyeong-gil, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea</p>
<p>Type of audit</p>	<p>Surveillance 사후관리 심사</p>
<p>Estimated length of the audit and timeline</p>	<p>Site visit 현장 심사: 5-8 January 2021 (4 days) 2021년 1월 5-8일 (4일) Public comment draft report 심사 보고서 초안 일반 공개: 1 February 2021 (2021년 1월 1일) Final Report 최종 보고서: 15 March 2021 (2021년 3월 15일) Public Certification Report 최종 보고서: 1 April 2021 (2021년 4월 1일)</p> <p>The audit team is planning to pay the site visit on 5-8 January 2021, however due to COVID-19 pandemic it is uncertain if one of the auditors can travel to Korea for site visit, because of the travel restriction imposed by respective governments and precautionary measures such as self-isolation or quarantine for some period upon arrival to prevent spread of the COVID-19. With the recent derogation to allow remote audit issued by ASC and MSC on 28 September 2020, if the travel restriction is not lifted before the site visit date, the site visit may be proceeded with in Assisted remote audit which means one auditor will make site visit while another auditor will conduct audit remotely.</p> <p>심사팀은 2021년 1월 5-8일까지 현장 방문을 계획하고 있으나, 코로나바이러스의 발생으로 인해, 심사팀중 한명의 심사원이 한국으로 출장을 올 수 있을 지 불확실한 상황임. 이는 코로나 바이러스감염 확산을 방지하기 위해 각국 정부가 취한 여행 제한 조치, 자가격리, 일정기간 강제 격리등 예방 조치로 기인한 것임. 이에 현장 검증 일시까지 여행제한 등의 조치가 해제되지 않는다면, 2020년 9월 28일 ASC와 MSC에서 발표한 원격심사 관련 지침에 따라 현장 검증은 이시스티드 원격 심사(심사원 1명은 현장 방문, 나머지 심사원은 원격 심사 실시)의 형태로 진행될 수도 있습니다.</p>
<p>Team Leader</p>	<p>Che King Lee has more than 30 years of aquafarming experience and he has worked in relevant industries such as consultancy, feed manufacturing, seafood processing, etc. He has completed ASC-MSC Seaweed auditor courses, Bivalve, Salmon, Shrimp and Tilapia. He is a qualified food safety and ASC, ASC CoC Auditor. 이체킹은 양식업에서 30년 이상의 경험이 있으며, 관련 업계 예를 들면 컨설팅, 사료 제조업, 해산물 가공업 등의 경험이 있음. 그는 ASC-MSC 해조류 심사원 과정, Bivalve, Salmon, Shrimp and Tilapia 심사원 과정을 완료했으며, 식품 안전 및 ASC, ASC CoC 심사원임.</p>

Proposed assessors	<p>[Environmental assessor, Social assessor] Seung Hyun Kwak has B. Eng. in Environmental Engineering and MBA. He possesses work experience in Environment, Health & Safety management for 8 years. He has audit experiences for more than 13 years in social compliance audit and Environment and Health & Safety audit, ASC- MSC Seaweed certification audit, ASC farm audit and the assurance on GHG emissions, Sustainability report. He also conducts trainings in the Health & Safety, Environment, Human Rights and social compliance and management system. He has successfully completed lead auditor training courses based on ISO 19011 principles, including ISO 14001 lead auditor course, OHSAS 18001 course, SA 8000 basic course and advanced course. He also completed EICC Labor & Ethics Lead auditor course. His core competence includes audit, assurance and training on EHS, GHG, Sustainability, and social compliance. Seung Hyun Kwak is a qualified RBA (previously EICC) lead auditor. He has conducted more than 100 social compliance audits including 15 RBA audits. He has conducted 2 ASC-MSC Seaweed certification audits and ASC Abalone certification audit. He is also a qualified MSC CoC certification auditor.</p> <p>[환경심사원, 사회심사원] 곽승현은 환경 공학 학사 및 경영학 석사 학위를 받았음. 그는 8년이상의 환경 및 안전보건 경영에 대한 직접 업무 경력을 가지고 있음. 그는 13년 이상의 기간동안, 사회 심사, 환경 및 안전보건 심사, ASC-MSC 해조류 인증 심사, ASC 양식장 인증 심사, 그리고 GHG 및 지속가능경영 보고서 검증 심사를 진행해 오고 있음. 그는 또한 안전보건, 환경, 인권 및 사회책임 및 경영시스템 관련 교육을 실시하고 있음. 그는 ISO 19011 원칙에 따른 선임심사원 과정들을 수료하였음. 이는 ISO 14001 선임심사원 과정, OHSAS 18001 선임 심사원 과정, SA 8000 기본 과정 및 SA8000 상위 과정을 포함하고 있습니다. 또한 EICC 노동 및 윤리 선임심사원 과정도 수료하였음. 그는 환경, 안전보건, 온실가스 지속가능경영, 사회책임들에 대한 심사, 보증 및 교육에 핵심역량을 가지고 있음. 그는 양식업, 정유, 석유화학, 시멘트, 전력, 건설, 금융, 전기전자를 포함한 일반 제조업체 등 다양한 산업에 대한 기업 온실가스 검증, 물 발자국 검증, 지속가능성 보고서 검증을 수행했고, 노동과 인권, 환경 및 안전보건에 대한 사회적 책임에 대한 심사 또한 전문을 100건 이상 진행했음. 곽승현은 RBA 선임심사원이며, 15건의 RBA 심사를 포함한 100여건 이상의 사회책임 심사를 진행했음. 그는 2건의 ASC-MSC 해조류 인증 심사, ASC 양식장 인증 심사로 수행했음. 그는 MSC CoC 인증 심사원임</p>
Site visit Date	5-8 January 2021 (4 days) 2021년 1월 5-8일 (4일)
Location and date of site visit	<p>Visit to Processing factory and production farms on 5-8 January 2021</p> <ul style="list-style-type: none"> - Gijang Mulsan Co., Ltd.: 30-16, Sinpyeong-gil, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea - Aquaculture license number # 123 (Mr. Yeongtae Kim): Daebyeon-ri, Gijang-eup, Gijang-gun, Busan, Republic of Korea - Aquaculture license number # 139 (Mr. Jaehong Jung): Sirang-ri Gijang-eup, Gijang-gun, Busan, Republic of Korea - Aquaculture license number # 206 (Mr. Yeongtae Kim): Location of the site : Hak-ri, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea - Aquaculture license number # 178 (Mr. Jeong Myeong Lee), Location of the site : Dongbaek-ri, Ilgwang-myeon, Gijang-gun, Busan, Republic of Korea <p>가공공장 및 생산양식장은 2020년 1월 5-8일 기간동안 방문하게 됨. - 가공공장: 대한민국 부산광역시 기장군 일광면 산평길 30-16 - 양식면허 번호 123호 (김영태), 양식장 위치: 부산시 기장군 기장을 대변리 - 양식면허 번호 139호 (정재홍), 양식장 위치: 부산광역시 기장군 기장을 시랑리 - 양식면허 번호 - 양식면허 번호 206호 (김영태), 양식장 위치: 부산시 기장군 일광면 학리 앞 바다 - 양식면허 번호 178호 (이정명), 양식장 위치: 부산광역시 기장군 기장을 일광면 동백리 앞 바다</p>
Stakeholders	Local government officer, Seaweed Researcher, Professor in University, and Worker, Neighbor, NGO are the main stakeholders. 공무원, 해조류 연구원, 대학교수, 근로자, 이웃주민, NGO가 주요 이해관계자임.
Risk Based Framework	RBF will not be used. 적용제외
RBF meeting	NA 해당없음
PI that RBF is to be applied to	NA 해당없음
Justification for use	NA 해당없음
Invitation for stakeholders	"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."

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]

Chain of Custody information

Identify if the following risks are currently or potentially applicable	Description of risk factor if present.	Describe any traceability, segregation, or other systems in place to manage the risk.
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.	Low risk as the farmers in UoA only produce the certified product in the designated farm. 평가 단위에 있는 양식장은 해당 양식장에서 인증품만을 생산하기 때문에 리스크가 낮음	The farmers in UoA produce the certified product in the designated farm and the production record is made in the log. Kelp is sun-dried in the designated drying field. Harvested product is transported to the processing factory by famers. Harvest seasons of the two species are different. 생산단위 내 양식어민들은 지정된 양식장에서 인증품을 생산하고 생산 기록은 일지에 기록됨. 다시마는 지정 건조장에서 일광 건조됨. 수확된 제품은 가공공장으로 어민들에 의해 운반됨. 2개 종의 수확시기가 다름.
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.	Low risk as the farmers in UoA only produce the certified product in the designated farm. 평가 단위에 있는 양식장은 해당 양식장에서 인증품만을 생산하기 때문에 리스크가 낮음	The farmers in UoA produce the certified product in the designated farm and the production record is made in the log. Kelp is sun-dried in the designated drying field. Harvested product is transported to the processing factory by famers. Harvest seasons of the two species are different. Other species is not produced in the UoA. 생산단위 내 양식어민들은 지정된 양식장에서 인증품을 생산하고 생산 기록은 일지에 기록됨. 다시마는 지정 건조장에서 일광 건조됨. 수확된 제품은 가공공장으로 어민들에 의해 운반됨. 2개 종의 수확시기가 다름. 다른 종은 생산되지 않음.
c. The possibility of subcontractors being used to handle, transport, store, or process certified products.	Low risk as subcontractor is not used. 하도급업체가 사용되지 않으므로 리스크가 낮음.	Handling, transportation, storage are done by the farmers in the UoA. 취급, 운송 및 보관은 양식어민이 직접 실시함.
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.	Low risk as the farms in UoA only produce the certified product in the designated farm.. The harvested products are transported by farmers to the point where the product enters the Chain of Custody (Processing factory). 평가 단위에 있는 양식장은 해당 양식장에서 인증품만을 생산하기 때문에 리스크가 낮음 수확품은 양식어민들이 CoC가 시작되는 가공공장으로 운송됨.	Harvested seaweed from the production units are transported to the processing factory (Gijang Mulsan) and enters the chain of custody. Volume of certified seaweed is identified in the log and trading record is retained. 생산단위에서 수확된 해조류는 가공장(기장물산)으로 운송되고, CoC가 시작됨 인증 해조류의 양과 거래량은 일지에 작성 기록됨.

Attach full CVs of assessment team

DNV·GL

CURRICULUM VITAE

Che King Lee

Qualification

- ASC Farm Auditor (Bivalve, Salmon, Shrimp, Tilapia)
- ASC-MSC Seaweed Auditor
- MSC CoC Auditor, ASC CoC Auditor

Education

Field of expertise	University/School	Year
Master Business Administration	Open University Malaysia	2011
Diploma in Fisheries	Agriculture University of Malaysia	1984

Summary of professional experience

Che King Lee has more than 30 years of aquafarming experience and he has worked in relevant industries such as consultancy, feed manufacturing, seafood processing, etc. He has completed ASC-MSC Seaweed auditor courses, Bivalve, Salmon, Shrimp and Tilapia. He is a qualified food safety and ASC, ASC CoC Auditor.

Employment

1. Independent Food Safety Certification Auditor: (July 2015 till now)
 - Sub-contractor auditor for NSF Food Safety Certification LLC for Best Aquaculture Practices (BAP) Certification audit on aquaculture farm, hatchery, seafood processing plant and feed mill, retail restaurant and supplier audit.
 - Sub-contractor auditor for SGS for Best Aquaculture Practices (BAP) Certification audit on aquaculture farm, hatchery, seafood processing plant and feed mill
 - Sub-contractor auditor for DNV GL for ASC, ASC CoC, FOS and FOS CoC.
2. Arca Biru Sdn Bhd., Malaysia (Nov 2014 to May 2015)

Position: R&D Senior Manager

Responsibilities:

 - Research and Development on nursery system, nursery transfer using fish pump, live feed culture, probiotic culture, probiotic up-scaling, bioassay to study the efficiency and efficacy to mitigate EMS disease.

3. Blue Archipelago Berhad, Malaysia. (Feb 2009 to Oct 2014)

Position: Shrimp Processing Plant Manager / Hatchery Manager

Responsibilities:

- As Company Management Representative for HACCP, BRC, IFS, Food Safety Certification and Hatchery Fish Quality Certification.
- As Plant Manager for shrimp processing plant with HACCP, HALAL Certification, EU Approved Plant, GMP, SSOP, BRC-Food and IFS-Food certified.
- Lead the processing team to process 10-15MT/day capacity with full food safety and traceability.
- Lead processing team to explore high value products, e.g. HOSO SIQF; Food Products (Shrimp Nugget; Breaded PD; Breaded PDTO; Wanton etc.), HLSO Deveined & PD BF Japan.
- Responsible for capital & operational budgeting.
- Responsible for job description and position qualification in processing plant organization structure.
- Responsible for production planning, monitoring and decision making.
- Coordinate with all departments to ensure that HACCP (Hazard Analysis Critical Control Point), GMP (Good Manufacturer Practice) and SSOP (Standard Sanitation Operation Procedure) are strictly implemented and documented.
- Coordinate with marketing pertaining to marketing order and export arrangement.
- Responsible in production cost monitoring and control.
- Motivation and improvement on productivity.
- Key Performance Index (KPI) setting and monitoring.
- Critical thinking to turn around processing plant.
- As Shrimp Hatchery Manager (From July 2013) in producing vannamei fry for the farm, production capacity 40 Million per month with Malaysia Good Aquaculture Practice Certified Hatchery

4. PT Central Proteinaprima, Indonesia. (June 2007 to May 2008)

Position: Shrimp Processing General Manager

Responsibilities:

- Coordinate with all departments in day to day operation and decision making in 100MT/day shrimp processing plant.
- Monitoring processing capacity versus harvest tonnage.
- Responsible in production cost to achieve targeted EBIT.
- Coordinate with marketing to fulfil marketing order, production planning and scheduling to fulfil customer requirement.
- Work closely with grow out department on harvest projection and planning.
- Take the lead in production data and finished goods data monitoring and reports.
- Responsible for the production team to strictly adhere to HACCP, GMP & SSOP in production and documentation.

5. PT Dipasena Citra Darmaja, Indonesia (Jan 2004 to May 2007)

Position: Shrimp Processing Plant Assistant General Manager

- Coordinate with all departments (Processing, QA, Engineering, Water Treatment, PPIC, General Service and General Admin) in a 100MT/day shrimp processing day to day operation and decision making.
- Liaise with marketing to fulfil marketing delivery order, products planning and scheduling.
- Liaise with shrimp farm operation on their harvest projection and planning.

- Work closely with procurement to schedule the delivery of spare parts, packaging materials, machineries and construction contracts.
- Responsible for production data and finished goods data reports.
- Responsible for the production team to strictly follow HACCP, GMP & SSOP in production and documentations.

6. Comfeed Marine Resources Sdn. Bhd., Malaysia (Oct 1999 to Dec 2001)

Position: Shrimp Farm Manager

Responsibilities:

- Responsible for the farm daily operation including production planning, inventory control, marketing, human resource, purchasing and financial control.
- Specialize in black tiger farming.
- Work closely with team member to increase the shrimp value by growing to market preference sizes.

7. Bestari Indo Prima, Indonesia (July 1994 to Sept 1999)

Position: Shrimp Feed Plant Manager

Responsibilities:

- Work closely with various departments (administration & finance, engineering & maintenance, inventory supply & control, formulation and production & quality control) for the production of 450MT/day shrimp feed with 8 production lines.
- Responsible in overall production planning and scheduling according to farm demand.

- Responsible in forecasting demand and tackle urgent production volume during irregular peak seasons.
- Work closely with customers on problem solving.

8. PT Dipasena Citra Darmaja, Indonesia (Oct 1990 to June 1994)

Position: Technical Manager

Responsibilities:

- Liaise with various block supervisors in shrimp farming in the world largest integrated shrimp company, total area 16 000 ha, total employees 20 000.
- Responsible for training pond care taker in technical aspects as well as in day to day shrimp farm management.
- Work closely with the Trainers to train supervisor and managers.
- Responsible in forecasting and planning harvest tonnage; fry, feed; fertilizer and spare-parts requirement.
- Responsible in growth data and production cost.

9. Ting Tai International Co Ltd., Thailand (Jan 1990 to Sept 1990)

Position: Farm Manager

Responsibilities:

- Responsible for the production and management of shrimp farm.
- Liaise with various departments in production planning, harvest and marketing.
- Responsible for daily water quality monitoring and control.
- Responsible for daily feeding quantity for each of the pond.
- Reporting to management on the farm performance.

10. Oceanographer Aquaculture International Pte. Ltd., Taiwan (Sept 1988 to Dec 1989)

Position: Aquaculture Consultant

Responsibilities:

- Work closely with team member in carry out feasibility and design for aquaculture projects in Indonesia, The Philippines and India.
- Responsible for water and soil monitoring.
- Responsible to train local staff on shrimp farming techniques.
- Responsible for production planning and control.

11. Aquabio (Sabah) Sdn. Bhd., Malaysia (Dec 1984 to Aug 1988)

Position: Technician (Senior Executive)


Responsibility:

- Responsible for water quality monitoring and feeding tray checking.
- Responsible for water pumping and water exchange.
- Work closely with a team of pond aid for daily ponds management.
- Responsible for algae culture in shrimp hatchery.
- Responsible for daily monitoring on algae growth density and fertilization.
- Responsible for recommending healthy algae for larvae rearing.
- Responsible for pure algae selection and multiplication.

12. Ternakan Marine Sdn. Bhd., Malaysia (May 1984 to Nov 1984)

Position: Technician (Junior Executive)

Responsibility:

- Shrimp farming technician.
 - Water quality monitoring before sun rise and in the afternoon to determine the fluctuation of oxygen and pH against other water quality parameters such as salinity and transparency.
 - Alert management on any water quality deviations.
 - Weekly shrimp sampling to determine the growth.
 - Assist in partial and full harvest activities.
- 
- A horizontal line spans the width of the page, with L-shaped corner markers at both ends, located in the lower half of the page.

CURRICULUM VITAE

Seung Hyun Kwak

Qualification

- ASC Farm Auditor (Abalone, Bivalve)
- ASC-MSC Seaweed Auditor
- MSC ~~COC~~ Auditor, ASC ~~COC~~ Auditor
- GHG Auditor, DNV GL GHG Verifier, Korea Ministry of Industry, Trade and Resource 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 Assessor,
- 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, SEDX Auditor
- RBA Auditor
- Registered Environmental Engineer (Air Quality), Human Resources Development Service of Korea
- Registered Environmental Engineer (Water Quality), Human Resources Development Service of Korea

Languages			
Language	Native		
English			
Korean	✓		
Education			
Field of expertise	University/School	Year	
Master Business Administration, Business administration	Korea University Business School	Feb 2008	
Bachelor of Engineering, Environmental Engineering	Konkuk University	Feb 1996	

Summary of professional experience

Seung Hyun Kwak has B. Eng in Environmental Engineering and MBA. He possesses work experience in Environment, Health & Safety management for 8 years. He has audit experiences for more than 13 years in social compliance audit and Environment and Health & Safety audit, ASC-MSC Seaweed certification audit, ASC farm audit and the assurance on GHG emissions, Sustainability report. He also conducts trainings in the Health & Safety, Environment, Human Rights and social compliance and management system. He has successfully completed lead auditor training courses based on ISO 19011 principles, including ISO 14001 lead auditor course, OHSAS 18001 course, SA 8000 basic course and advanced course. He also completed EICC Labor & Ethics Lead auditor course. His core competence includes audit, assurance and training on EHS, GHG, Sustainability, and social compliance. Seung Hyun Kwak is a qualified RBA (previously EICC) lead auditor. He has conducted more than 100 social compliance audits including 15 RBA audits. Recently he conducted ASC-MSC Seaweed certification audit and ASC Abalone certification audit.

Employment

DNV GL	Feb 2008 – to date
Position:	Sustainability and Supply Chain Management Service Manager
Description:	- ASC Farm audit, ASC-MSC Seaweeds audit, Social compliance audits including RBA audit, SEDEX audit. CDM Validation and Verification - Corporate GHG Inventory Verification (More than 50 projects in Oil refinery, Power, Cement, Petrochemicals, Chemicals, Cement, Electronics, General manufacturing industries, Construction, Airport, Shipping industries) - Corporate Sustainability Report Assurance (More than 50 projects in Power, Financial institutions, State-owned organizations, Electronics, General manufacturing industries, Construction, Airport, Consumer goods) - Social audits (More than 100 audits) - Water Footprint Verification - ISO 26000 Assessment - EICC Training/Gap Analysis - Safety Culture Assessment
LRQA	Feb 2004 - Jan 2008
Position:	Marketing & Sales Manager
Description:	Marketing, sales and business development activities> - Marketing and sales planning, Quotation, Development of proposal - Market research - Publicity - Business development of new products (GHGs including CDM Project, ISO 14064, CSR Report verification, ISO 28000, ISO/IEC 20000, ISO 20000 etc) - Development of new accounts - Analysis of sales performance Technical activities > - CDM Validation (Daegu Sancheon Landfill gas CDM Project) - 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	Apr 1996 - Jan 2004
Position:	HSE Manager
Description:	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, Hydraulic, Thermal and Nuclear power plant and Industrial facilities. - 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

