

Aquaculture Stewardship Council and Marine Stewardship Council

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

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:

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Versions issued

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

DNV GL - Business Assurance



Production unit details 생산단위 세부 사항

Name of the production unit 생산 단위명	Wando Eco-friendly Seafood Cooperative (WESC) 완도친환경수산물협동조합
Target species common name/s 대상 종 일반명	Hiziki and Kelp 톡, 다시마
Species Latin name 학명	Hizikia fusiformis and Saccharina japonica 히즈키아 푸시로미스, 사카리나 자포니카
Production system 생산시스템	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 생산단위의 위치	Production units are located in Wando-Gun, Jeollanam-do, Republic of Korea. [South Sea shore of Korean Peninsula / FAO Major Fishing Areas: Pacific, NORTHWEST (Major Fishing Area 61)] Farms are located in the sea around 3 islands, and primary processing places (Sun-drying, Mixing with salt) are located in 3 islands called Sinjido(Sinji Island), Saengildo and Geumildo(Geumil Island) in the South sea in Wando-Gun. See location maps in the tab, 'Aquafarm Locations' 생산단위들은 대한민국 전라남도 완도군에 위치하고 있음. [한반도 남해안 / FAO Major Fishing Areas: 태평양, 북서쪽 (Major Fishing Area 61)] 양식장은 3개 섬 (신지도, 생ildo, 금ildo) 주위 바다에, 초기 가공장은 3개 섬 (신지도, 생ildo, 금ildo) 내에 위치하고 있음. 'Aquafarm Locations' 탭에 삽입된 지도 참조
Stock Region 생태자원 위치	N/A 해당 없음
Receiving water body 수역	Wando-Gun Sea Area, Jellanam-Do, Republic of Korea 대한민국 전라남도 완도군 해역
Clients part of the production unit 생산 단위의 담당자	Mr. Hyun Kyu Woo/Marketing Director, Wando Eco-friendly Seafood Cooperative (WESC) 우현규 본부장, 완도친환경수산물협동조합
Facilities 시설 현황	Sea : Aquaculture equipment, rope, stone anchorage, float, boat, a pumping equipment and a rubber hose for washing 해양 : 양식 기자재, 로프, 무게추, 부자, 운송선, 펌프 및 고무호스 Land : cutter, a hot-water boiler 육지: 절단기, 보일러
Unit of Certification (if different)	Wando Eco-friendly Seafood Cooperative (WESC) 완도친환경수산물협동조합 9, Nonggongdangji 2-gil, Wando-eup, Wando-gun, Jeollanam-do, Republic of Korea 대한민국 전라남도 완도읍 농공단지 2길, 9 [Address for farms and primary processing place of Member Farmers] 조합원 양식장/가공장소 (Farm doesn't have the address but have GPS Coordinate) 양식장은 주소가 없어 GPS 좌표로 기재함 1) Mr. Seong-Uk LEE's Farm (34°19'47"N 126°54'38"E) / Processing place (8-20, Sinji-ro 1281beon-gil, Sinji-myeon, Wando-gun, Jeollanam-do, Republic of Korea) 이성욱 양식장 (34°19'47"N 126°54'38"E) / 가공장(대한민국 전라남도 완도군 신지면 신지로1281번길 8-20, 34°19'56.6"N 126°52'51.5"E) 2) Mr. Young-Taek JI's Farm (34°17'04"N 126°52'15"E / 34°17'17"N 126°52'01"E) / Processing place (953, Sinji-ro, Sinji-myeon, Wando-gun, Jeollanam-do, Republic of Korea) 지영택 양식장 (34°17'04"N 126°52'15"E / 34°17'17"N 126°52'01"E) / 가공장 (전남 완도군 신지면 신지로 953, 34°19'10.7"N 126°51'23.4"E) 3) Mr. Yong-Jin CHOI's Farm (34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E) / Processing place (1065-3, Sinji-ro, Sinji-myeon, Wando-gun, Jeollanam-do, Republic of Korea) 최영진 양식장 (34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E) / 가공장 (대한민국 전라남도 완도군 신지면 신지로 1065-3, 34°19'22.6"N 126°51'56.4"E) 4) Mr. Jong-Hun CHO's Farm (34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E) / Processing place (975, Sinji-ro, Sinji-myeon, Wando-gun, Jeollanam-do, Republic of Korea) 조정훈 양식장 (34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E) / 가공장 (대한민국 전라남도 완도군 신지면 신지로 975, 34°19'22.7"N 126°51'56.2"E) 5) Mr. Ho-Yeon JEONG's Farm (34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E) (140-47, Saengil-ro, Saengil-myeon, Wando-gun, Jeollanam-do, Republic of Korea) 정호연 양식장 (34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E) / 가공장 (대한민국 전라남도 완도군 생일면 생일로 140-47, 34°18'52.0"N 126°59'50.2"E) 6) Mr. Su-Han CHOI's Farm (34°19'13"N 126°57'11"E / 34°18'29"N 126°57'28"E) / Processing place (15-2, Geumgok 1-gil, Saengil-myeon, Wando-gun, Jeollanam-do, Republic of Korea) 최수한 양식장 (34°19'13"N 126°57'11"E / 34°18'29"N 126°57'28"E) / 가공장 (대한민국 전라남도 완도군 생일면 금곡1길 15-2, 34°20'04.0"N 126°59'51.1"E) 7) Mr. Yo-Hwan KIM's Farm (39-1, Yongchul-gil, Saengil-myeon, Wando-gun, Jeollanam-do, Republic of Korea) 김요환 양식장 (대한민국 전라남도 완도군 생일면 용출길 39-1, 34°18'41.8"N 126°59'12.6"E) 8) Mr. Nam-Il KIM's Farm (34°18'14"N 126°58'59"E / 34°18'15"N 126°59'18"E / 34°18'10"N 126°58'48"E) / Processing place (146, Dongsongyonghang-gil, Geumil-eup, Wando-gun, Jeollanam-do, Republic of Korea) 김남일 양식장 (34°18'14"N 126°58'59"E / 34°18'15"N 126°59'18"E / 34°18'10"N 126°58'48"E) / 가공장 (대한민국 전라남도 완도군 금일읍 동송용항길 146, 34°21'03.0"N 127°03'38.6"E) 9) Mr. Ju-Bin AN's Farm (34°23'22.2"N 127°03'26.7"E) / Processing place (17-1, Hahwajeon 1-gil, Geumil-eup, Wando-gun, Jeollanam-do, Republic of Korea) 안주빈 양식장 (34°23'22.2"N 127°03'26.7"E) / 가공장 (대한민국 전라남도 완도군 금일읍 하화전1길 17-1, 34°21'17.1"N 127°01'07.6"E) 10) Mr. Do-Hyung CHAE's Farm (34°24'10.1"N 127°00'16.3"E / 34°23'49.8"N 127°00'11.2"E / 34°23'17.4"N 127°01'01.6"E / 34°22'48.9"N 127°00'56.0"E) / Processing place (9, Cheokchi-gil, Geumil-eup, Wando-gun, Jeollanam-do, Republic of Korea) 채도형 양식장 (34°24'10.1"N 127°00'16.3"E / 34°23'49.8"N 127°00'11.2"E / 34°23'17.4"N 127°01'01.6"E / 34°22'48.9"N 127°00'56.0"E) / 가공장 (대한민국 전라남도 완도군 금일읍 척치길 9, 34°21'40.0"N 127°01'33.2"E) 11) Mr. Kyung-Yeol PARK's Farm (34°19'41.3"N 127°01'42.7"E) / Processing place (4-26, Sinpyeong 1-gil, Geumil-eup, Wando-gun, Jeollanam-do, Republic of Korea) 박경열 양식장 (34°19'41.3"N 127°01'42.7"E) / 가공장 (대한민국 전라남도 완도군 금일읍 신평1길 4-26, 34°20'43.9"N 127°02'31.2"E)
Harvest season 수확시기	December to early July, 12 월부터 7 월 초까지

Management system 경영 시스템	<p>Two levels of the government, i.e. the Ministry of Maritime Affairs and Fisheries (MMAF), being the central authority, as well as local governments in the province, city and district, are involved in fisheries conservation, management and development. The Korean Government also 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. 2개 수준의 정부, 중앙 정부 수준에서의 해양수산부 그리고 지방 정부 수준에서 수산물의 보전, 관리, 개발에 관여하고 있음. 또한 한국정부는 어업인 중심의 공동 관리 시스템을 도입하여, 책임있는 어업의 효과적인 실행을 추구하고 있음. 이 시스템에서는 어민 조직, 즉 수산업 협동조합 또는 마을의 어촌계 등을 통해 수산업 관련 법률 및 지역정부의 규제 법안 등을 자체 준수하도록 노력하고 있음.</p> <p>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. 수산업법에 따라 해조류, 갑각류 또는 기타 해양 동물 (특정 구역의 경계를 정하고 수역을 활용하거나 수중에 다른 시설을 제공함)을 경작하고자하는 사람에게 지방 정부의 면허를 취득하도록 요구됨. 다른 종류의 수산 양식에는 복합 양식 어업, 협동 양식 어업 및 마을 양식 어업이 포함됨. 모든 면허는 어장 이용 및 개발 계획의 한계 내에서 발행되어야 함. 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 결정함. 이 법은 면허발급 우선순위 순서를 정하고, 면허거부 및 폐지의 근거를 명시하며, 면허는 수산자원이나 기타 공공의 이익을 위하여 필요한 경우 기간 동안 제한이나 조건의 대상이 될 수 있다고 규정하고 있다. 면허증은 일반적으로 10년 동안 유효함.</p>
	<p>Acts that directly relate to fisheries licenses and permits include the Fisheries Act and the Inland Water Fisheries Act. In addition, the "Fishery Management Act" for the use and management duties of the farms, the "Act on the indication of the origin of agricultural and marine products" for the indication of the origin of aquaculture products, the "Act on the Agricultural and Fishery Products Quality Control" For the support of fish farmers, there are "Agriculture, Forestry and Fisheries Credit Guarantee Act" and "Agricultural and Fishery Accident Insurance Act". 어업 허가 및 허가와 직접 관련된 법안에는 수산업과 육지 수산법이 포함된다. 또한, 농가의 사용 및 관리 의무에 관한 "어업관리법"과 수산물의 유래를 표시하는 "농수산물 및 수산물 원산지 표시에 관한 법률", 어업농의 지원을 위한 "농어, 수산물 품질 관리법"이 있음. 농림수산신용보증법 및 농업 및 어업 재해보험법 등이 있음.</p> <p>Wando Eco-friendly Seafood Cooperative (WESC) has a governance structure. Member Assembly is the highest organization from which key decisions are made. Board committee and steering committee are two main pillars supporting member assembly.</p> <p>Operational manual for certified seaweeds aquaculture is established by steering committee. All farmers apply the operational manual in their daily activities.</p> <p>완도친환경수산물협동조합은 거버넌스구조를 가지고 있음. 조합원 총회는 최고의 거버넌스 기구이며, 중요 의사결정이 이루어짐. 이사회 및 운영위원회는 총회를 지지하는 중요한 2개의 조직이며 상시적인 의사결정이 이루어짐. 인증 수산물 양식을 위한 운영 매뉴얼이 운영위원회에 의해 제정되었고, 모든 양식장에서는 매뉴얼을 적용해서 업무를 수행하고 있음.</p> <p>The cooperative has established procedures for management system. The operations manual states details of work procedure, and responsibilities of member farmers. 협동조합에서는 경영시스템 절차를 수립했음. 운영 매뉴얼은 상세한 작업 절차, 회원 양식장의 책임등이 기재되어 있음.</p>
Seaweed category 해조류 카테고리	<p>Bii Cultivation at sea: Supply of seed from wild stocks NOT required or negligible / Bii 바다양식: 인공 채묘, 야생 자원 필요하지 않거나 무시할만한 수준</p>

<p>Statement that the production unit is within scope</p> <p>인증범위내의 생산단위에 대한 설명</p>	<p>Harvesting or farming activities are only eligible for certification if the target species is a seaweed. 자연 채집 또는 양식 활동을 통한 인증 대상의 목표 수종은 해조류임. All farms subject to this certification audit conduct aquafarming of seaweeds. 이번 인증심사 대상 양식장들은 해조류 양식을 하고 있음.</p> <p>The Standard applies globally to all locations and scales of operations, including both harvesting of wild stocks and production from aquaculture systems. 이 표준은 자연 서식지의 수확과 양식 체계의 생산을 포함하여 모든 장소와 규모의 작업에 국제적으로 적용된다. Wando Eco-friendly Seafood Cooperative (WESC) and member farms subject to this certification audit are committed to comply with the standard and conduct farming as per the standard.</p> <p>완도친환경수산물협동조합 및 인증심사 대상 회원 양식장들은 표준을 준수할 것을 다짐했으며, 표준을 적용해서 양식을 하고 있음.</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. 이 기준은 해조류 생산 단위에만 적용된다. 현존하는 ASC 또는 MSC 표준에 따른 평가의 범위에있는 다른 생산 단위는 해조류 표준에 영향을 받지 않는다. Only seaweeds farms are in scope for the assessment. 해조류 양식장만 심사 대상에 포함되어 있음.</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.</p> <p>도입은 해조류 기준에 대한 평가를 위해 신청한 날로부터 적어도 20년 전에 이루어졌으며, 또는 외계 종은 수생 환경과 완전히 분리된 육지 시설에서 배양된다. 인증을 추구하는 조직은 최소 12개월 또는 1회의 수확 주기 중 더 적은 것으로 운영되어야 한다. Farming of the targeted species began more than 20 years ago in the area. 대상 해조류의 양식은 해당 지역에서 20년 전에 시작되었음.</p> <p>Organisations seeking certification shall have been in operation for at least 12 months, or one harvest cycle, whichever is less. Farms have been in operation more than 12 months. 양식장들은 12개월 이상 운영을 하고 있음.</p> <p>Organisations seeking certification shall have available records of performance data covering the periods of time specified in the Standard. Wando Eco-friendly Seafood Cooperative (WESC) and member farms subject to this certification audit retain the records of performance data covering the periods of time specified in the Standard and can provide the assessors with the records for review. 완도친환경수산물협동조합 및 심사 대상 양식장들은 규격에서 정의하고 있는 기간에 해당하는 성과 데이터 기록을 보유하고 있으며, 심사원들의 검토를 위해 제공할 수 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. 돌연변이 유발, 발암성 또는 기형성 살충제를 사용하는 수확 또는 농업 활동 또는 해양 환경이나 농장 또는 양식 해조에서 독소로 유지되는 다른 화학물질은 인증 대상이 되지 않는다.</p> <p>No chemical is used in the farm 양식장에서는 화학약품이 사용되지 않음.</p>
<p>Production unit operators</p> <p>생산단위 작업 현황</p>	<p>Farmers outplant seedling supplied from nursery house in the open water farms. When seaweeds grow enough, farmers harvest and transport to land. 3 different types of seaweeds (Fresh seaweed, dried seaweed and salt-mixed seaweed) are sold to the market. Harvested seaweeds are sun-dried in the proximity field owned or rented to each farmer to produce the dried seaweed or boiled and mixed with salt by each farmer to produce salt-mixed seaweed. When a sales order is received, the seaweed is transported to buyer and the ownership changes.</p> <p>양식장에서는 종묘장에서 공급받은 종묘를 양식장에 이식함. 다시마가 충분히 성장하면, 수확 후 육지로 이송함. 3가지 형태의 다시마/툇(생 다시마/툇, 건조 다시마/툇, 염장 다시마/툇)가 시장에 출하됨. 건 다시마/툇은 양식장 대표가 소유/임대한 근처 건조장에서 일광 건조되며, 염장 제품은 양식장 대표들에 의해 삶은 후 소금과 혼합하게 됨. 판매 주문을 받으며, 구매자에게 운송되며, 소유권이 변경됨.</p> <p>1) Mr. Seong-Uk LEE's farm 이성욱 양식장: 2 Vessels, 1 truck, 1 Hiziki farm, 1 sun dry field 선박 1대, 트럭 1대, 툇 양식장 1곳, 일광건조장 1곳 운영</p> <p>2) Mr. Young-Taek JI's farm 지영택 양식장: 2 Vessels, 1 truck, 2 Hiziki farms, 1 sun dry field 선박 2대, 트럭 1대, 툇 양식장 2곳, 일광건조장 1곳 운영</p> <p>3) Mr. Yong-Jin CHOI's farm 최용진 양식장 : 2 Vessels, 1 truck, 2 Kelp farms, 1 sun dry field 선박 2대, 트럭 1대, 다시마 양식장 2곳, 일광건조장 1곳 운영</p> <p>4) Mr. Jong-Hun CHO's farm 조정훈 양식장: 1 Vessel, 1 truck, 1 Kelp farm, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 1곳, 일광건조장 1곳 운영</p> <p>5) Mr. Ho-Yeon JEONG's farm 정호연 양식장: 2 Vessels, 1 truck, 1 Kelp farm, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 1곳, 일광건조장 1곳 운영</p> <p>6) Mr. Su-Han CHOI's farm 최수한 양식장: 2 Vessels, 1 truck, 2 Kelp farms, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 2곳, 일광건조장 1곳 운영</p> <p>7) Mr. Yo-Hwan KIM's farm 김요환 양식장: 2 Vessels, 1 truck, 3 Kelp farms, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 3곳, 일광건조장 1곳 운영</p> <p>8) Mr. Nam-II KIM's farm 김남일 양식장: 1 Vessel, 1 truck, 1 Kelp farm, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 1곳, 일광건조장 1곳 운영</p> <p>9) Mr. Ju-Bin AN's farm 안주빈 양식장: 1 Vessel, 1 truck, 1 Kelp farm, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 1곳, 일광건조장 1곳 운영</p> <p>10) Mr. Do-Hyung CHAE's farm 채도형 양식장: 2 Vessels, 1 truck, 4 Kelp farms, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 1곳, 일광건조장 1곳 운영</p> <p>11) Mr. Kyung-Yeol PARK's farm 박경열 양식장: 2 Vessels, 1 truck, 1 Kelp farm, 1 sun dry field 선박 1대, 트럭 1대, 다시마 양식장 1곳, 일광건조장 1곳 운영</p>
<p>Information to identify Micro family business 소규모 가족 경영 정보</p>	<p>Recognition of Micro Family business is not applicable. 소규모 가족 비즈니스에 해당되지 않음.</p>

Harvest/production data 수확 / 생산 데이터	1) Mr. Seong-Uk LEE's farm 이성욱 양식장 : Hiziki 54 tons/year 툷 연간 54톤 2) Mr. Young-Taek JI's farm 지영택 양식장: Hiziki 151 tons/year 툷 연간 151톤 3) Mr. Yong-Jin CHOI's farm 최용진 양식장 : Kelp 16 tons 다시마 연간 16톤 4) Mr. Jong-Hun CHO's farm 조정훈 양식장 : Kelp 7 tons 다시마 연간 7톤 5) Mr. Ho-Yeon JEONG's farm 정호연 양식장 : Kelp 7 tons 다시마 연간 7톤 6) Mr. Su-Han CHOI's farm 최수한 양식장 : Kelp 8 tons 다시마 연간 8톤 7) Mr. Yo-Hwan KIM's farm 김요환 양식장 : Kelp 7 tons 다시마 연간 7톤 8) Mr. Nam-Il KIM's farm 김남일 양식장: Kelp 6 tons 다시마 연간 6톤 9) Mr. Ju-Bin AN's farm 안주빈 양식장 : Kelp 6 tons 다시마 연간 6톤 10) Mr. Do-Hyung CHAE's farm 채도형 양식장 : Kelp 20 ton 다시마 연간 20톤 11) Mr. Kyung-Yeol PARK's farm 박경열 양식장 : Kelp 5 tons 다시마 연간 5톤
History of the Production unit 생산단위의 역사	Korean total fisheries and aquaculture production reached a peak of 3.1 million tonnes in 1986, declined progressively to less than two million tonnes in 2004 and has only fluctuated slightly since then. Total fish production was 2.1 million tonnes (2015) with aquaculture production accounting for approximately 23 percent of total production. Aquaculture is an important element in the fisheries sector of the country. In 2015 the total aquaculture production was about 1.6 million tonnes with the farm gate value of USD 2.16 billion. Seaweeds farming production was 1.2 million tonnes in 2015, accounting for 71 percent of the total aquaculture production by quantity and 20 percent in value. (reference: Fishery and Aquaculture Country Profile in FAO website) The first aquaculture of Kelp and Hiziki in Wando began in 1968 and 1980 respectively. (reference: Wando Seaweeds EXPO 2017 website), which is the far more than 20 years ago. The number of farms have increased since then in Wando sea area and seaweeds farming in this area is one of the most popular industries. Not only Kelp and Hiziki which are the target species for the this certification audit but also other seaweed including Sea Mustard, Laver, Enteromorpha, seaweed fulvescens are commonly farmed in the area. The member farmers of Wando Eco-friendly Seafood Cooperative (WESC) began the aquaculture farming from 2005 at the earliest. 대한민국의 수산 및 양식 생산량은 1986년에 3백10만톤의 정점에 다달았으며, 이후 2004년 2백만톤이하로 점차 감소해오고 있으며, 약간의 변동만 있어 왔음. 총 어획량은 2015년 2백10만톤이었으며, 이중 약 23%가 양식 생산량이 차지하고 있음. 수산양식은 대한민국의 수산업 분야에서 중요한 요소임. 2015년 총 양식 생산량은 약 백 6십만톤, 출하금액 기준 21억 6천만달러였음. 2015년 해조류 양식 생산량은 백2십만톤으로 전체 양식 생산량의 71%, 금액기준으로 20%를 차지하고 있음. (참고 자료: Fishery and Aquaculture Country Profile in FAO 홈페이지) 완도군 지역에서 다시마와 툷의 양식은 1968년과 1980년에 처음 시작되었음. (참고 자료: 완도 해조류 엑스포 2017 홈페이지) 이는 20년 훨씬 전임. 완도군 해역에서 이후 양식장의 수는 증가해오고 있으며, 해조류 양식은 지역의 가장 흔한 산업의 하나로 자기매김하였음. 해조류 양식은 20년 훨씬 전에 지역에서 시작되었음. 완도 지역에서는 이번 인증 심사 대상인 다시마와 툷 뿐아니라 미역, 김, 파래, 매생이 등도 양식되고 있음. 완도 친환경 수산물 협동조합 조합원들은 가장 빠른 경우 2005년부터 양식을 시작했음.
Other production unit in the area 지역의 기타 생산유닛 정보	In wando Sea area, a lot of aquaculture farms are in operation. Main species farmed includes seaweeds such as Kelp and Hiziki Sea Mustard, Laver, Enteromorpha, seaweed fulvescens and abalone. 2 organizations in Wando sea area are certified to or in assessment of ASC Abalone farm certification. 완도군 주변 해역에는 다시마, 툷, 미역, 김, 파래, 매생이를 비롯한 해조류들과 전복양식장이 다수 존재함. 완도군 주변 해역 내에 ASC 전복 양식장 인증을 받았거나, 현재 심사가 진행중인 전복 양식장이 있음.
Main commercial market 주요한 소비자 마켓	Korean domestic buyers 대한민국 국내 시장
Any other information the CAB wishes to provide (including any specific issues within the production unit that need to be highlighted). 인증기관이제공하자 하는 추가 정보	N/A 해당 없음

Audit details 심사 세부사항

<p>Conformity Assessment Body (CAB) 인증기관 정보</p>	<p>DNV GL Business Assurance 디엔브이지엘 비즈니스 어슈어런스</p> <p>Name of Assessment Team Leader : Nguyen Huy <i>능위엔 휴이</i></p> <p>Name of first point of contact for the assessment (if different to the assessment team leader). Seung Hyun Kwak <i>곽승현</i></p> <p>msc.fisheries.global@dnvgl.com</p> <p>Phone Number +82 2 724 841</p> <p>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 고객</p>	<p>Name of company Wando Eco-friendly Seafood Cooperative (WESC) <i>완도친환경수산물협동조합</i></p> <p>Name of first point of contact for the assessment (if different to the assessment team leader). Hyun Kyu Woo <i>우현규</i></p> <p>Position in the client organisation Marketing Director <i>마케팅 본부장</i> Email address: Woohyun1472@hanmail.net</p> <p>Phone Number: +82 61 553 2424</p> <p>Mailing address: 9, Nonggongdanji 2-gil, Wando-eup, Wando-gun, Jeollanam-do, 59108, Republic of Korea 대한민국 전라남도 완도군 완도읍농공단지 2길 9 우편번호 59108</p>
<p>Type of audit 심사 구분</p>	<p>Initial audit <i>최초 심사</i></p>
<p>Estimated length of the audit and timeline 예상되는 심사 기간 및 주요 시간 일정</p>	<p>A predicted date by which the assessment is expected to be completed and certification awarded if the assessment result is positive. Include projected dates for key reports.</p> <p>Site visit <i>현장 방문</i> : 25-29 May 2020 (2020년 5월 25일 ~ 5월 29일) Public comment draft report <i>심사 보고서 초안 일반 공개</i> : 15 June 2020 (2020년 6월 15일) Final Report <i>최종보고서</i> : 24 July 2020 (2020년 7월 24일) Public Certification Report and Certificate issue <i>최종 인증보고서 및 인증서 승인</i> : 29 July 2020 (2020년 7월 29일)</p> <p>The audit team is planning to pay the site visit on 25-29 May 2020, 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 27 March 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 2020년 5월 25-29일까지 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 예상 조치로 기인한 것임. 이에 현장 검증 일시까지 여행제한 등의 조치가 해제되지 않는다면, 현장 검증은 이스티드 원격 심사 (심사원 1명은 현장 방문, 나머지 심사원은 원격 심사 실시)의 형태로 진행될 수도 있습니다.</p>
<p>Team Leader 심사팀장</p>	<p>[Team Leader, Environmental assessor] Nguyen Huy has B. Eng. in Chemical and Food technology. He possesses work experiences in food production for food manufacturer for more than 6 years. He has audit and training experiences for more than 11 years in ASC Farm, MSC/ASC CoC, Food safety and quality management. He has successfully completed lead auditor training courses based on ISO 19011 principles, including ISO 9001 lead auditor course, ISO 22000 lead auditor course and SA 8000 basic course. He also completed ASC Farm auditor courses (Shrimp, Abalone, Bivalve, Pangasius) He has completed more than 100 days of audits including ASC farm audits. <i>능위엔 휴이는 화학 및 식품 기술 공학 학사 학위를 소유하고 있음.</i> <i>식품 생산 업체에서 생산 관리자로 6년 이상 근무했음.</i> <i>ASC Farm, MSC/ASC CoC, 식품 안전 그리고 품질경영 분야에 대해 11년 이상의 심사 경력을 보유하고 있음</i> <i>그는 ISO 9001 선임심사원 과정, ISO 22000 선임심사원 과정, SA8000 기본 과정을 수료했으며, ASC 양식장 심사원 과정(새우, 전복, 이매패류, 팡가수스)을 완료했음.</i> <i>그는 ASC 양식장 심사를 포함해서 100 일 이상의 심사 경험을 보유하고 있음.</i></p>

<p>Proposed assessors 심사원</p>	<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. Recently he conducted ASC-MSC Seaweed certification audit and ASC Abalone certification audit. [환경심사원, 사회 심사원] 곽승현은 환경 공학 학사 및 경영학 석사 학위를 받았음. 그는 8년 이상의 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 제조 업체 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 전문들 100건 이상 진행했음. 곽승현은 RBA 선임심사원이며, 15건의 RBA 심사를 포함한 100여건 이상의 사회적 책임 심사를 진행했음. 최근 ASC-MSC 해조류 인증 심사, ASC 양식장 인증 심사로 수행했음.</p>
<p>Site visit Date 현장 방문 일정</p>	<p>25 - 29 May 2020 (2020년 5월 26일-29일)</p>
<p>Location and date of site visit 현장 방문 일자 및 위치</p>	<p>Headquarter Wando Eco-friendly Seafood Cooperative (WESC), 34.339423, 126.732481, 9, Nonggongdanji 2-gil, Wando-eup, Wando-gun, Jeollanam-do, Republic of Korea 완도친환경수산물협동조합: 대한민국 전라남도 완도군 완도읍 농공단지 2길, 9 Farms and primary processing place (Farm doesn't have address, only GPS Coordinates) 양식장과 가공장 (농장은 주소가 없어 GPS 좌표 제공) 1) Mr. Seong-Uk LEE's Farm 34°19'47"N 126°54'38"E / Processing place 34°19'56.6"N 126°52'51.5"E (License Nr. 13671) 이성욱 양식장 34°19'47"N 126°54'38"E / 가공장 34°19'56.6"N 126°52'51.5"E 2) Mr. Young-Taek JI's Farm 34°17'04"N 126°52'15"E / 34°17'17"N 126°52'01"E / Processing place 34°19'10.7"N 126°51'23.4"E (License Nr. 11775 and 13477) 지영택 양식장 34°17'04"N 126°52'15"E / 34°17'17"N 126°52'01"E / 가공장 34°19'10.7"N 126°51'23.4"E 3) Mr. Yong-Jin CHOI's Farm 34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E / Processing place 34°19'22.6"N 126°51'56.4"E (License Nr. 11772 and 13669) 최용진 양식장 34°18'15"N 126°53'12"E / 34°18'27"N 126°53'14"E / 가공장 34°19'22.6"N 126°51'56.4"E 4) Mr. Jong-Hun CHO's Farm 34°17'28"N 126°52'2"E / Processing place 34°19'22.7"N 126°51'56.2"E (License Nr. 14078) 조정훈 양식장 34°17'28"N 126°52'2"E / 가공장 34°19'22.7"N 126°51'56.2"E 5) Mr. Ho-Yeon JEONG's Farm 34°18'28"N 127°00'51"E / Processing place 34°18'52.0"N 126°59'50.2"E (License Nr. 13555) 정호연 양식장 34°18'28"N 127°00'51"E / 가공장 34°18'52.0"N 126°59'50.2"E 6) Mr. Su-Han CHOI's Farm 34°19'13"N 126°57'11"E / 34°18'29"N 126°57'28"E / Processin place 34°20'04.0"N 126°59'51.1"E (License Nr. 13548) 최수한 양식장 34°19'13"N 126°57'11"E / 34°18'29"N 126°57'28"E / 가공장 34°20'04.0"N 126°59'51.1"E 7) Mr. Yo-Hwan KIM's Farm 34°18'14"N 126°58'59"E / 34°18'15"N 126°59'18"E / 34°18'10"N 126°58'48"E / Processing place 34°18'41.8"N 126°59'12.6"E (License Nr. 13551) 김요환 양식장 34°18'14"N 126°58'59"E / 34°18'15"N 126°59'18"E / 34°18'10"N / 가공장 34°18'41.8"N 126°59'12.6"E 8) Mr. Nam-Il KIM's Farm 34°21'38.6"N 127°05'50.7"E / Processing place 34°21'03.0"N 127°03'38.6"E (License Nr. 13583) 김남일 양식장 34°21'38.6"N 127°05'50.7"E / 가공장 34°21'03.0"N 127°03'38.6"E 9) Mr. Ju-Bin AN's Farm 34°23'22.2"N 127°03'26.7"E / Processing place 34°21'17.1"N 127°01'07.6"E (License Nr. 14037) 안주빈 양식장 34°23'22.2"N 127°03'26.7"E / 가공장 34°21'17.1"N 127°01'07.6"E 10) Mr. Do-Hyung CHAE's Farm 34°24'10.1"N 127°00'16.3"E / 34°23'49.8"N 127°00'11.2"E / 34°23'17.4"N 127°01'01.6"E / 34°22'48.9"N 127°00'56.0"E (License Nr. 13572, 13794, 13933, 13934) 채도형 양식장 34°24'10.1"N 127°00'16.3"E / 34°23'49.8"N 127°00'11.2"E / 34°23'17.4"N 127°01'01.6"E / 34°22'48.9"N 127°00'56.0"E / 가공장 34°21'40.0"N 127°01'33.2"E 11) Mr. Kyung-Yeol PARK's Farm 34°19'41.3"N 127°01'42.7"E / Processing place 34°20'43.9"N 127°02'31.2"E (License Nr. 13693) 박경열 양식장 34°19'41.3"N 127°01'42.7"E / 가공장 34°20'43.9"N 127°02'31.2"E</p>

Stakeholders 이해관계자	Employees of Wando Eco-friendly Seafood Cooperative and member farms 완도친환경수산물협동조합 근로자 Neighbor village people 양식장 주변 마을 주민 Local government 지방 정부 Local community 지역 사회 Researchers / Academia 연구소/학계 Client 고객 NGOs NGO
Risk Based Framework 리스크베이스 프레임워크	RBF will not be used. 적용제외
RBF meeting RBF 회의	NA 해당없음
PI that RBF is to be applied to RBF 적용 성과 지표 현황	NA 해당없음
Justification for use 적용에 대한 설명	NA 해당없음

Invitation for stakeholders 이해관계자 의견수렴	<p>"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."</p> <p>현장 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 이해당사자들의 참여에 크게 의존한다. 생산단위에 대한 경험이나 지식을 가진 이해당사자들이 이 회의에 참여할 수 있도록 장려한다."</p>
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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. [CAR, 17.6.6.1]

Chain of Custody information 추적성 관리 시스템 정보

<p>Identify if the following risks are currently or potentially applicable 현재 또는 잠재적인 리스크에 대한 확인</p>	<p>Description of risk factor if present. 현존하는 리스크요인에 대한 설명</p>	<p>Describe any traceability, segregation, or other systems in place to manage the risk. 이 리스크를 관리하기 위한 추적성, 분리 또는 기타 시스템에 대한 설명</p>
<p>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.</p> <p>동일한 UoA 내에서 생산된 동일하거나 외관이 비슷한 종 또는 수산물을 포함하여, 인증품과 비인증품이 혼합 또는 대체 가능성</p>	<p>11 farmers are included in the UoA. NO non-certified farmers within same UoA</p> <p>UoA 내에는 11개 양식장만이 포함됨. UoA내에 비인증 양식장은 포함되어 있지 않음</p>	<p>Only certified algae is to be produced within the UoA.</p> <p>UoA 내에서는 인증 해조류만 생산됨</p>
<p>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.</p> <p>양식, 수확, 운송, 저장 또는 가공 활동 과정에서 동일한 또는 비슷한 외관의 제품 또는 종을 포함하여, 인증 품과 비인증품이 혼합 또는 대체 가능성</p>	<p>There is no risk of mixing of certified and non-certified product during production, harvest, transport, or primary processing activities (sun-drying or mix with salt).</p> <p>양식, 생산, 운송, 저장 및 가공 활동 과정 중에 인증품과 비인증 품의 혼합 리스크가 없음.</p>	<p>The farmers are to produce only certified seaweed at their own farms and drying and mixing with salt seaweed at their own area on land. The sold seaweed are directly picked up at the farmers' facility and transported to buyers.</p> <p>양식장대표들은 본인의 양식장에서 인증 해조류만 생산하고, 육상의 본인 소유 장소에서 건조 및/또는 염장 작업을 실시함. 판매된 해조류는 해당 장소에서 구매자 장소로 운송됨.</p>
<p>c. The possibility of subcontractors being used to handle, transport, store, or process certified products. 인증품을 취급, 운송, 저장 또는 가공하는 과정에서 하청업체 사용 가능성</p>	<p>No risk identified using subcontractors during handle, transport, store and processing.</p> <p>제품 취급, 운송, 보관 및 가공 과정에서 하청업체 사용에 따른 리스크는 없음</p>	<p>Subcontractor is not used to handle, transport, store or primary process certified products. 인증품을 취급, 운송, 저장 또는 1차 가공시에 하청업체를 사용하지 않음.</p>
<p>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. 인증 제품이 비인증품과 COC 추적성 관리 포인트에 진입하기 전에 혼합, 대체 또는 잘못 라벨링될 가능성</p>	<p>No other risk identified.</p>	<p>The certified product is transported and delivered by famers when purchase order is received.</p> <p>양식장 대표들이 주문을 받게 되면 인증품을 직접 운송하여 배달함.</p>

CURRICULUM VITAE

NGUYỄN HUY

Current position - FSMA Lead Trainer, FSSC 22000 Lead Tutor.
- BRC/IFS/ASC/HACCP/ISO9001 Senior Auditor.
- Consultant.

Date of birth 06 Jul 1981

Contact e-Mail: huy6781@gmail.com
Phone: 0084 983 679 981

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| 1999- 2004 | 1. Bachelor of engineering : "Chemical and Food technology" major in "Food Technology" field, Viet Nam National University – Ho Chi Minh City – University of Technology : 4,5 years from 1999 to 2004. |
| 2007 | 2. Management skills for Production Manager course by TUV-Rheinland: May 2007. |
| 2012 | 3. Aquaculture Farming training course which duration 60 periods – 02 nd – 14 th April 2012 by Ho Chi Minh City of Food Industry University. |
| | 4. Basic Veterinary Medicine training course which duration 60 in 16 th – 28 th April 2012 by Ho Chi Minh City of Food Industry University. |
| 2018 | 5. The international Coach program – Certified Personal Development Coach Certificate, VCI, HCMC Vietnam on Dec 2017 – Apr 2018. |

3. OTHER TRAINING:

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| 2009 | 1. Quality Management System (ISO9001:2008) Auditor/Lead Auditor Training Course (A17024) by BVC HCM Viet Nam: 10 th – 14 th August 2009. |
| 2010 | 2. "How to implement" training program for the GLOBAL STANDARD FOR FOOD SAFETY (BRC FOOD SAFETY STANDARD) by BRC Approved Training Provider – BVC, Denmark, Copenhagen: 12 nd – 13 rd Jan 2010 |
| | 3. Food Safety Management System (ISO 22000:2005) Auditor/Lead Auditor Training Course – IRCA 2019 by BVC HCM Viet Nam: 31 st May to 04 th Jun 2010. |
| 2011 | 4. IFS written examination – IFS Office - Shanghai China – Jul 2011 |
| | 5. ASC auditor training course for Pangasius – Can Tho – Viet Nam – Sept 2011 successful completion and get ASC Certificate. |
| | 6. IFS oral examination – IFS Office – Berlin – Germany – 22 Sept |

	2011.
2013	7. MSC COC training – MSC – 06-06 Feb 2013 – Ha Noi – Viet Nam. 8. SA8000 Basic course for auditor – SAI – 01-04 April 2013 – Mumbai – India. 9. ASC auditor training course for Shrimp– Bangkok – Thailand – Dec 2013.
2014	10. SA8000 – advance training course – Bangalore – India – April 2014.
2016	11. FSMA – FSPCA Preventive Controls for Human Foods in Bangkok, Thailand on Sept 5-9, 2016
2017	12. FSMA – FSPCA Foreigner Supplier Verification Program (FSVP) Lead Instructor Course in Florida, USA on May 30 to Jun 1, 2017
2018	13. The 7 habits of highly effective people course – Bureau Veritas – Vung Tau, Dec 2018.
2019	14. Attended and passed the ASC auditor training course for Abalone and Bivalve (05 days) – 20th -24th May 2019, by ASC Office, Seoul - Republic of Korea.

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

NA

LANGUAGES AND DEGREE OF PROFICIENCY:

English Intermediate level.

EMPLOYMENT RECORDS:

May 2020-To date	Employer:	DNV GL Business Assurance Viet Nam
	Position	Subcontractor (Auditor, Trainer)
August 2009 - May 2019	Employer :	Bureau Veritas Certification Viet Nam Ltd.
	Position held:	<ul style="list-style-type: none"> - Food Manager - FSMA Lead instructor for FSPCA/ FDA - USA. - Technical reviewer and Certification Decision team – HACCP, ISO22000, ASC Shrimp, ASC Pangasius, BAP schemes. - Lead Trainer ISO22000:2018 and FSSC22000:2018 IRCA accredited. - Lead auditor of ISO 9001:2008, GMP Cosmetic, HACCP Codex, HACCP RvA, ISO 22000:2005, FSSC 22000, BRC Food, IFS Food, ASC Pangasius, ASC Shrimp, MSC CoC ...
	Description of duties:	<ul style="list-style-type: none"> - To support the process of obtaining and maintaining the relevant approvals / accreditations - To develop procedures to deliver the product, which satisfy the appropriate requirements, e.g. accreditation requirements - To help define criteria for the control and development of the Competences Centres, which deliver the product - To provide product support to the network and/or coordinate projects related to product development - To maintain an in-depth knowledge of the product and related standards and requirements, in order to provide

credible and efficient support.
 - To Promote existing products/services
 - To Regularly meet clients to understand client needs and anticipate evolutions and summarize client needs and update with CER Manager
 - To support BD team in quoting and developing clients for new products.
 - To Cooperate to the definition & implementation of marketing initiatives for this new scheme

April-2004 to August-2009

Employer: Vietnam Dairy Products Joint Stock Company – Vinamilk.

Position held: **Production Supervisor**

Description of duties: Support and manage workers, technology and machines to ensure productivity, KPI, lost control and quality of sprayed milk powder, non-dairy creamer, breakfast cereals, roasted coffee beans, grounded coffee, 3 in 1 coffee, instant tea in can, bag, stick and sachet.

DETAILED TASKS ASSIGNED IN PROJECTS INVOLVED:

2009 - now	Lead Auditor	1. For ISO 9001:2008 and ISO 9001:2015: qualified lead auditor by BVC Viet Nam in Oct 2009, audit more than 400 mandays.
2008 - now	Internal Auditor	2. For ISO 22000, FSSC 22000, BRC Food: qualified lead auditor by BVC Denmark in Jul 2010, audit more than 250 mandays, including more than 200 mandays audit for seafood manufacturing company.
2010-now	Lead Auditor	3. For IFS Food: qualified IFS auditor version 5 in Sept 2011 and version 6 in June 2012, audit more than 150 mandays, including more than 100 mandays audit for seafood manufacturing company.
2010-now	Lead Auditor	4. AUDIT EXPERIENCE ABOUT AQUACULTURE FARMING: audit for ASC PAD for Pangasius and ASC ShAD for Shrimp, ASC Abalone: total audit more than 200 mandays for more than 50 different farms.
2010-now	Lead Auditor	5. AUDIT EXPERIENCE ABOUT AQUACULTURE PRODUCER: during more than 05 years working for BVC, audit for ISO9001, ISO22000, MSC/ASC CoC and BRC and IFS Food standards: total audit more than 250 mandays for more than 80 different Seafood companies.

The undersigned certifies the above information is true and correct and will be responsible for any false statement discovered.

Signature.



Nguyen Huy.

CURRICULUM VITAE

Seung Hyun Kwak
Business Development Manager



Personal statistics
Nationality: South Korean

Current position
- Responsible for Sustainability and Supply Chain Management Service in Korea
- Key Customer Manager
- Contract Administrator

- Qualification**
- ASC Farm Auditor (Abalone, Bivalve)
 - ASC-MSC Seaweed Auditor
 - GHG Auditor, DNV GL GHG Verifier, Korea Ministry of Industry, Trad 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 Bangcheon-ri 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 19001 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

Training

Year	Description
Apr 2020	MSC CoC Online Training
Mar 2020	Social ASC-MSC Seaweed Standard Online Training
Mar 2020	Environmental ASC-MSC Seaweed Standard Online Training
Oct 2019	ASC-MSC Seaweed and Chain of Custody Certification Training
May 2019	ASC Auditor Training Course for Bivalves
May 2019	ASC Auditor Training Course for Abalone
Apr 2019	Leading the Digital Transformation
Jun 2018	Green Bond Assessor Training
Apr 2018	AGA Verifiers qualification course
Oct 2017	GHG Verifier Refresher course (Waste)
Aug 2014	Train The Trainer for Social auditor training course including SMETA
Oct 2013	Airport Carbon Accreditation Verifier Course
Sep 2013	ISO 14001 Lead Auditor Course
Jan 2013	OHSAS 18001 Lead Auditor Course
Nov 2012	Global Water Footprint Standard Training
Sep 2012	msm2
Jul 2012	Business Continuity Management Implementation Course
Jun 2012	SA8000 Advanced Auditor Course
Jun 2012	EICC-GeSI Labor & Ethics Lead Auditor Course
Apr 2012	Comprehensive ISCC System Certification Seminar
Feb 2012	Water Footprint - Concept & Applications
Oct 2011	SA8000 Introduction and Basic Auditor Training Course
Oct 2011	Anti-corruption and Business Ethics
Sep 2011	Ethics management training
Jul 2011	HSEIA Course
Jun 2011	GHG Verification Auditor Course
Nov 2010	CSR Performance Ladder Management System Certification Standard Knowledge Course
Nov 2010	ISO26000 services
Nov 2010	Energy Target Management Verification Auditor Course
Jan 2010	Energy Productivity Management: 3-day
Dec 2009	Environmental Performance Labelling Auditor Course
Nov 2009	Financial Management Course
Oct 2009	The Journey Stepping into Leadership
Oct 2009	NANO: Information Security - Memory Sticks
Oct 2009	Verifying a Corporate GHG Inventory
Jul 2009	Validating Investment Analysis

Mar 2009	GHG Services and Auditing
Aug 2008	Verification of Sustainability Reporting
Aug 2007	GHG Auditor Course
Apr 2006	CDM Validator Course
Jan 2003	OHSAS 18001 Lead Auditor Course
Feb 2001	ISO 14001 Lead Auditor Course



