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Self-declaration from the production company PT Bibit Unggul (Global Gen) of freedom from nine OIE-listed or regionally important penaeid shrimp (crustacean) pathogens

submitted to the OIE on 3 May 2013 by Dr Syukur Iwantoro, Delegate of Indonesia to the OIE, Director General of Livestock and Animal Health Services, Ministry of Agriculture, Jakarta, Indonesia

Background information

PT Bibit Unggul (Global Gen) is a Pacific white shrimp (*Penaeus [Litopenaeus] vannamei*) shrimp-breeding (Fig. 1) and broodstock production company located on the island of Lombok, Nusa Tenggara Barat Province (NTB), Indonesia. The Global Gen Nucleus Breeding Center (NBC) and Broodstock Multiplication Centers (BMCs) (Fig. 2) satisfy the conditions of a 'compartment', as described in Chapters 4.1. and 4.2. of the OIE *Aquatic Animal Health Code* (the 'Aquatic Code') 2012. These breeding and broodstock multiplication centres (Fig. 3) consist of newly constructed facilities on two sites, separated by approximately 12 km (Figs 4 and 5).

Global Gen established a selective breeding and broodstock multiplication programme in 2007. Basic biosecurity measures, in accordance with the *Aquatic Code*, were put into place.

Surveillance programme and contents

In 2008, a pathogen-surveillance programme was initiated. Health screenings were conducted twice yearly by the University of Arizona OIE Reference Laboratory for Penaeid Shrimp Diseases, according to the OIE *Aquatic Manual* (OIE 2006 and 2009), for hepatopancreatic parvovirus (HPV) and necrotising hepatopancreatitis (NHP), employing peer-reviewed, published methods, particularly polymerase chain reaction (PCR).



Fig. 1
PT Bibit Unggul (Global Gen) *Penaeus (Litopenaeus) vannamei* broodstock

Population sampling was conducted for PCR testing, assuming a pathogen prevalence of 2%. All PCR tests were negative for white spot disease, infectious hypodermal and haematopoietic necrosis virus, monodon baculovirus, HPV, baculovirus penaei, NHP, infectious myonecrosis virus, yellowhead disease virus, and Taura syndrome virus.

In 2010, 2011 and 2012 the PT Bibit Unggul breeding and broodstock multiplication facilities were inspected by the Delegate of Indonesia to the OIE (the Director General of Livestock and Animal Health Services) and certified as meeting the biosecurity requirements set by the government of Indonesia and as being



Fig. 2
Nucleus Breeding Center



Fig. 3
Broodstock multiplication module

specific-pathogen-free for nine OIE-listed or regionally important pathogens of penaeid shrimp. In 2010, the Minister of Marine Affairs and Fisheries of the Republic of Indonesia officially recognised *P. vannamei* shrimp being produced by PT Bibit Unggul as a 'new variety', fit for export and free of nine specific OIE-listed or regionally important penaeid shrimp pathogens.

PT Bibit Unggul is an approved *P. vannamei* broodstock supplier to the Philippines, Vietnam and Malaysia. The competent authorities of Indonesia (the exporting country) have agreed to cooperate with the competent authorities of those countries wishing to import PT Bibit Unggul live shrimp broodstock. PT Bibit Unggul initiated and organised a meeting and discussion between the competent authorities in Indonesia and those of Vietnam, resulting in an agreement between the two countries on health screening, quarantine and health certification requirements for the export of *P. vannamei* shrimp from Indonesia to Vietnam, based on OIE guidelines. Consequently, the Vietnamese competent authorities have officially approved PT Bibit Unggul as a supplier of *P. vannamei* shrimp.

PT Bibit Unggul is initiating discussion between the competent authorities of other countries in the Asian region, in the hope of establishing regional cooperation over procedures for the recognition of disease-free status (according to OIE guidelines) and facilitating international trade in live shrimp, as has been achieved between Indonesia and Vietnam.

In preparation for a self-declaration of freedom from disease, PT Bibit Unggul



Fig. 4
Lombok island, Indonesia

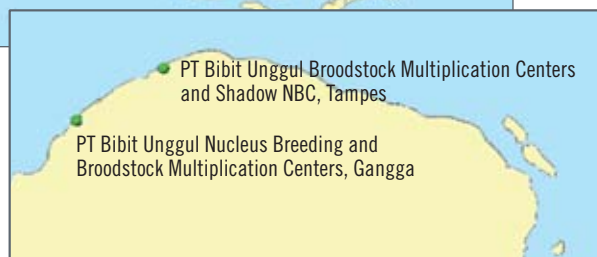


Fig. 5
Location of Nucleus Breeding Center (NBC) and Broodstock Multiplication Centers, and Shadow NBC

(Global Gen) facilities were audited by Dr Donald Lightner (the University of Arizona OIE Reference Laboratory for Crustacean Diseases) and were found to meet 'basic biosecurity conditions', as defined by the *Aquatic Code*.

A dossier with supporting documents for this self-declaration of freedom from disease is available upon request. Included in the dossier are documents detailing the biosecurity plan for the compartment; its standard operating procedures; reports from an OIE Reference Laboratory for penaeid shrimp (crustacean) diseases showing negative test results over more than two years of testing for nine OIE-listed or regionally important pathogens; an inspection certificate from the Indonesian Delegate to the OIE (Director General of Livestock and Animal Health Services, Ministry of Agriculture); agreements between the competent authorities of Indonesia and of the Philippines, Malaysia and Vietnam to permit importation of PT Bibit Unggul *P. vannamei* stocks; and a report of a biosecurity audit by the director of an

OIE Reference Laboratory for penaeid shrimp (crustacean) diseases.

Self-declaration

Therefore, considering the information given above, the Delegate of Indonesia to the OIE declares that the breeding and broodstock facilities of production company PT Bibit Unggul (Global Gen), which satisfy the conditions of a 'compartment', as described in Chapters 4.1. and 4.2. of the OIE *Aquatic Animal Health Code*, are free of disease for nine OIE-listed or regionally important pathogens of penaeid shrimp, as of 21 February 2013.

