

Giant Freshwater Prawn Grow-out — Code of Practice
— Good Aquaculture Practices

Working Draft
As of May 15, 2026

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2 **Scope**
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4 This Code of Good Aquaculture Practices (GAqP) for giant freshwater
5 prawns covers practices that aim to prevent or minimize the risk associated
6 with aquaculture production in ponds, tanks, and cages. It applies to
7 aquaculture facilities, intended for giant freshwater prawn grow-out culture.
8 The Code addresses food safety, animal health and welfare, environmental
9 integrity, and socio-economic welfare and consists of compliance with
10 technical and legal requirements.
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13 **1 Normative References**
14

15 The following documents are referred to in the text in such a way that some
16 or all their contents constitute the requirements of this document. The latest
17 edition of the referenced documents (including any amendments) applies.
18

19 Bureau of Agriculture and Fisheries Standards (BAFS)-Department of
20 Agriculture (DA). (2022a). Establishment of traceability systems for
21 cultured finfishes and crustaceans — Guidelines (PNS/BAFS
22 338:2022). [https://bafs.da.gov.ph/index.php/approved-philippine-
23 national-standards/](https://bafs.da.gov.ph/index.php/approved-philippine-national-standards/)
24

25 BAFS-DA. (2022b). Veterinary drug residues in food — Maximum Residue
26 Limit (MRL) (PNS/BAFS 48:2022).
27 [https://bafs.da.gov.ph/index.php/approved-philippine-national-
28 standards/](https://bafs.da.gov.ph/index.php/approved-philippine-national-standards/)
29

30 International Aquaculture Feed Formulation Database (IAFFD). (n.d.).
31 IAFFD: International aquaculture feed formulation database.
32 Retrieved November 6, 2025, from <http://iaffd.com>
33

34
35 **2 Terms and Definitions**
36

37 For the purposes of this Standard, the following terms and definitions apply:
38

39 **3.1**

40 **aquaculture facilities**

41 include permanent or semi-permanent systems or structures for breeding,
42 treatment and rearing of aquatic organisms. Aquaculture facilities may exist
43 both in marine waters, inland water environments, and as terrestrial
44 production systems (Food and Agriculture Organization [FAO] of the United
45 Nations [UN], n.d.; BAFS-DA, 2025b, *modified*)
46

3.2

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47 **biosecurity**
48 set of management and physical measures designed to reduce the risk of
49 introduction, establishment and spread of animal diseases, infections or
50 infestations to, from and within an animal population (World Organization
51 for Animal Health [WOAH], 2018; BAFS-DA, 2025b)

52
53 **3.3**
54 **competent authority**
55 official government agency having jurisdiction (Codex Alimentarius
56 Commission [CAC], 2013); also refers to the bureau or agency mandated
57 by law with responsibility and competence for ensuring and supervising the
58 implementation of sanitary and phytosanitary (SPS) measures, regulations,
59 or standards (BAFS-DA, 2025b)

60
61 **Note to entry** In the Philippines, the competent authorities relevant to
62 Giant Freshwater Prawn include the DA-Bureau of
63 Fisheries and Aquatic Resources (BFAR), which is
64 responsible for the conservation, development, and
65 regulation of all Philippine fishery and aquatic resources;
66 the Department of Environment and Natural Resources
67 (DENR), which has jurisdiction over the environmental and
68 habitat aspects of fisheries; and the DA-Bureau of Animal
69 Industry (BAI), which regulates the manufacture,
70 importation, labeling, distribution, and sale of aquatic
71 feeds; and relevant Local Government Units (LGUs),
72 which exercise jurisdiction over municipal waters and are
73 responsible for the management, conservation, and
74 regulation of fisheries within their respective territorial
75 boundaries in accordance with national laws and policies

76
77 **3.4**
78 **grow-out**
79 phase in aquaculture where aquatic organisms are raised from juvenile
80 stage to market size (FAO-UN, 2012, *modified*)

81
82 **3.5**
83 **veterinary drug and product**
84 any substance, including biological products, applied or administered to
85 food producing, companion, aquatic, laboratory and exotic animals, whether
86 used for therapeutic, prophylactic or diagnostic purposes or for modification
87 of physiological functions or behaviors (BAFS-DA, 2025a)

88
89
90 **4 Use**
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92 This Standard adheres to the principles outlined in PNS/BAFS 135:2025
93 (Good Aquaculture Practices — Code of Practice). It specifically establishes
94 requirements for giant freshwater prawn grow-out culture. This document
95 shall be used independently and serves as the basis for inspecting giant
96 freshwater prawn grow-out for GAqP certification under relevant regulations
97 of the competent authority.

98
99 Other farmed species shall be assessed against existing species-specific
100 GAqP standards. In the absence of such standards, the general provisions
101 of PNS/BAFS 135:2025 shall apply.

102

103

104 **5 Site Selection**

105

106 **5.1 Location**

107

108 **5.1.1** The site of grow-out facilities shall be evaluated and permitted based on its
109 distance to ecologically sensitive or protected areas such as mangrove
110 forests, coral reefs, and other biodiversity hotspots. The grow-out facilities
111 shall also adhere to zoning laws set by LGU.

112

113 **5.1.2** All existing, new, and expanding grow-out facilities shall secure and present
114 a valid Environmental Compliance Certificate (ECC) or Certificate of Non-
115 Coverage (CNC) in accordance with national regulations.

116

117 **5.1.3** Grow-out facilities should be located in environmentally suitable and
118 sustainable areas where the risk of contamination is minimized or where
119 sources of pollution can be controlled or mitigated according to national law
120 and regulations.

121

122 **5.1.4** Proof of registration (e.g., license to operate, or business permit from the
123 LGU, etc.) and ownership of the farm area (e.g., legal rights and its location
124 map) shall be made available.

125

126 **5.1.5** Grow-out facilities should have access to transportation both inside and
127 outside the farm, for quick operations and transport of inputs and harvested
128 products.

129

130 **5.1.6** Grow-out facilities should have sufficient supply of freshwater and brackish
131 water or seawater where the risk of pollution or contamination can be
132 controlled or mitigated to an acceptable level.

133

134 **5.2 Lay-out and design**

135

136 **5.2.1** Grow-out facilities should be used for aquaculture purposes only.

137

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- 138 **5.2.2** Grow-out design and layout shall integrate biosecurity measures to prevent
139 cross-contamination, disease outbreak, and damage to existing aquatic
140 habitats.
141
- 142 **5.2.3** Toilet facilities and septic systems shall be properly installed and
143 constructed to prevent contamination of the grow-out facilities.
144
- 145 **5.2.4** Area for cooking and dining shall be separated from the grow-out facilities.
146
- 147 **5.2.5** Equipment and grow-out facilities should be designed to minimize physical
148 damage to the prawns during growing and harvesting.
149
- 150 **5.2.6** Vehicles, equipment, and other implements used for feed, seedstocks, and
151 harvested prawns, should be designed to allow adequate cleaning and
152 disinfection.
153
- 154 **5.2.7** Reservoir ponds or tanks should be provided for incoming water to ensure
155 a sufficient water supply.
156
- 157 **5.2.8** Sedimentation or treatment ponds or tanks for effluent shall be available.
158
- 159 **5.2.9** Buffer zones shall be observed in accordance with existing national
160 regulations.
161
162
- 163 **6 Facilities, Sanitation, and Waste Management**
164
- 165 **6.1 Facilities**
166
- 167 **6.1.1** Disposal facilities for wastes should be in suitable and confined areas.
168
- 169 **6.1.2** Fuel, chemical substances (e.g., sanitizer, fertilizer, and reagents), and
170 veterinary drugs should be stored in a storage facility and separated
171 according to the manufacturer's instructions and as specified on the label.
172
- 173 **6.1.3** Regular repair and maintenance should be undertaken to preserve the good
174 physical condition of the facilities.
175
- 176 **6.1.4** Appropriate life support systems shall be provided in the grow-out ponds
177 and tanks.
178
- 179 **6.1.5** A designated quarantine facility should be established and maintained for
180 the treatment of all diseased prawns.
181
- 182 **6.1.6** Mortality pits shall be established for the disposal of diseased, infected, and
183 dead prawns.

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- 184
185 **6.1.7** Machines used in the grow-out facility should be in good condition. Used
186 lubricants shall be placed in an appropriate container and discarded
187 properly in accordance with applicable waste management procedures.
188
- 189 **6.1.8** A safe and reliable electrical system shall be installed to provide a steady
190 and sufficient power supply.
191
- 192 **6.2 Sanitation**
- 193
- 194 **6.2.1** Wild and domesticated animals shall not be allowed in the production area
195 or its vicinity to prevent contaminants (e.g., feces, parasites, pathogens, and
196 other disease vectors).
197
- 198 **6.2.2** Grow-out facilities and their surroundings, equipment, and implements shall
199 be maintained in a hygienic condition to prevent contamination.
200
- 201 **6.2.3** Adequate procedures for cleaning and disinfection of transport vehicles,
202 containers, and equipment shall be in place and implemented.
203
- 204 **6.2.4** Bathrooms and toilets shall be hygienically maintained to prevent
205 contamination of the grow-out facilities.
206
- 207 **6.2.5** Cleaning materials and disinfectants shall be handled properly to prevent
208 contamination and avoid environmental hazards.
209
- 210 **6.2.6** Operators shall implement safe and responsible management to control
211 pests (e.g., rodents, insects, mites, etc.). Pesticides must be used only when
212 necessary, following proper instructions to protect farm workers, farmed
213 aquatic animals, and the environment.
214
- 215 **6.3 Waste Management**
- 216
- 217 Waste disposal should be conducted daily and responsibly in accordance
218 with applicable waste management regulations. The grow-out facilities shall
219 take appropriate measures to:
220
- 221 a) dispose wastes in compliance with environmental laws; and
222 b) immediately dispose of dead aquatic organisms in a hygienic manner.
223
224
- 225 **7 Personnel Health and Hygiene**
- 226
- 227 **7.1** Workers should be trained on farm-level hygienic practices to ensure
228 awareness of their roles and responsibilities for protecting aquaculture

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- 229 products from contamination and deterioration throughout the production
230 cycle. This includes the following protocol:
231
- 232 **7.1.1** Training on Occupational Health and Safety (OH&S) should be conducted
233 for the workers to ensure safer farm work conditions.
234
- 235 **7.1.2** Workers should wear suitable and appropriate working clothes and
236 protective gear. In areas and conditions where risk is high, protective gear
237 shall be used.
238
- 239 **7.1.3** Workers shall wash their hands each time before commencing work and
240 after completing their work.
241
- 242 **7.1.4** An adequate quantity of first aid kits should be available and easily
243 accessible at the production area, and laborers should be able to
244 demonstrate awareness of and apply various first aid measures.
245
- 246 **7.1.5** Workers should cover wounds with waterproof bandages and wear clean,
247 waterproof gloves or boots when applicable.
248
- 249 **7.1.6** Smoking, spitting, or drinking alcoholic beverages in the working and
250 storage premises shall not be allowed.
251
- 252 **7.2** Workers should undergo an annual medical examination to ensure they are
253 fit to work.
254
- 255 **7.3** Workers who have shown signs of medical problems or conditions that may
256 pose health risks shall be excluded from handling fishery products until
257 deemed certified fit to resume work.
258
- 259
- 260 **8 Grow-out Management**
261
- 262 **8.1 Grow-out facility preparation**
263
- 264 **8.1.1** A written protocol for grow-out operations shall be adopted or developed,
265 and implemented consistently with the existing standards.
266
- 267 **8.1.2** Practices for the preparation of grow-out facilities should minimize risk for
268 cross-contamination.
269
- 270 **8.1.3** Grow-out facilities and implements shall be disinfected after every operation
271 and prepared properly prior to use.
272
- 273 **8.1.4** Biosecurity measures against the entry of pathogens shall be undertaken at
274 all times.

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- 8.1.5** Prohibited chemicals or biological substances listed in Annex A (List of banned antimicrobials in food-producing animals) shall not be used in grow-out facility preparation.
- 8.1.6** Fertilizers, prebiotics, and probiotics shall be used in accordance with the manufacturer’s instructions.
- 8.1.7** Operators should regularly monitor soil quality parameters to ensure that it is within the optimal range.
- 8.2 Water management**
- 8.2.1** Water used for grow-out should be properly filtered, allowed to settle, aerated, and maintained to ensure conditions are suitable for the production of giant freshwater prawns.
- 8.2.2** Incoming water shall pass through installed screens or filters to prevent the entry of undesirable species.
- 8.2.3** The recommended optimum ranges of water quality parameters, as shown in Annex B (Recommended optimum ranges of water quality parameters for giant freshwater prawn grow-out farms), should be maintained and regularly monitored to ensure suitability for culture.
- 8.2.4** Water quality shall be periodically examined for hazards.
- 8.3 Stock management**
- Stocking density should be optimum for the species and for the culture system as specified in Annex C (Recommended stocking densities for giant freshwater prawn grow-out farms).
- 8.4 Feeds and feeding**
- 8.4.1** Operators should implement efficient feeding management by administering appropriate feeding regimes based on the culture system and its life stage/s.
- 8.4.2** Grow-out operations should include procedures to prevent feed contamination.
- 8.4.3** Commercial formulated feeds shall be obtained from companies registered by the competent authority, in compliance with existing regulations and in conformity with established standards.

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- 320 **8.4.4** Feed ingredients, additives, premixes, and compound feeding stuff shall be
321 obtained from a company registered and monitored by the competent
322 authorities.
323
- 324 **8.4.5** Non-commercial feeds such as but not limited to live, fresh, and frozen,
325 farm-formulated feeds, and natural food, should be of good quality and
326 suitable for the species.
327
- 328 **8.4.6** If farm-made feeds or fresh diets are used, the protocol on the preparation
329 and administration of such shall be provided.
330
- 331 **8.4.7** Farm-made aquafeeds should meet the nutrient requirements of giant
332 freshwater prawns as presented in the International Aquaculture Feed
333 Formulation Database (IAFFD).
334
- 335 **8.4.8** Live, fresh, frozen, and natural feeds should be of good quality and should
336 be free of pathogens and contaminants.
337
- 338 **8.4.9** Medicated and non-medicated feeds should be stored separately to
339 minimize the risk of feeding to non-target animals.
340
- 341 **8.4.10** Feed additives and veterinary drugs shall comply with the existing
342 regulations and conform to established standards.
343
- 344 **8.4.11** Only registered probiotics and other biological inputs shall be used in the
345 grow-out facilities.
346
- 347 **8.4.12** Feeding practices should minimize the risk for biological, chemical, and
348 physical contaminations of feeds and animals.
349
- 350 **8.4.13** Feeding practices should prioritize the maintenance of water and sediment
351 quality to prevent nutrient overloading and minimize waste.
352
- 353 **8.4.14** Feeds should be stored properly in a separate facility, which is cool and dry
354 to prevent spoilage, mold growth, and contamination. It should be organized
355 to facilitate a first-in, first-out (FIFO) release and use.
356
- 357 **8.5 Harvest, postharvest , and transport**
358
- 359 **8.5.1 Harvest**
360
- 361 **8.5.1.1** Harvesting equipment and implements shall be cleaned, sanitized, and
362 stored properly.
363

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- 364 **8.5.1.2** Harvesting (either partial or total) should be planned in advance and should
365 be done during the cooler time of the day to minimize stress and mortality
366 of the giant freshwater prawns.
367
- 368 **8.5.1.3** Harvested giant freshwater prawns should be quickly and hygienically
369 handled, using practices that do not cause contamination, physical damage,
370 and prolonged stress.
371
- 372 **8.5.1.4** For giant freshwater prawns intended to be sold live, practices should
373 ensure appropriate handling to minimize stress.
374
- 375 **8.5.1.5** For giant freshwater prawns intended to be sold chilled, or frozen, practices
376 should ensure rapid slaughtering to preserve the quality of the product.
377
- 378 **8.5.1.6** Water and ice used during harvesting should be of a quality suitable for the
379 production of food.
380
- 381 **8.5.2 Postharvest**
382
- 383 **8.5.2.1** Postharvest equipment and implements shall be cleaned, sanitized, and
384 stored properly.
385
- 386 **8.5.2.2** Postharvest operations should be carried out quickly, hygienically, and
387 without damage to the product.
388
- 389 **8.5.2.3** Food additives and chemicals, which are used in contact with products, shall
390 comply with prevailing legal requirements.
391
- 392 **8.5.2.4** Postharvest wastes should be properly disposed of in designated areas to
393 minimize the risk of cross-contamination.
394
- 395 **8.5.2.5** Clean water should be readily and sufficiently available for handling and
396 cleaning operations.
397
- 398 **8.5.2.6** Ice shall be made from potable water and sourced from approved
399 establishments by the competent authority.
400
- 401 **8.5.2.7** Ice should be obtained, handled, and stored under proper sanitary
402 conditions, to prevent or minimize the risk of contamination.
403
- 404 **8.5.2.8** Prior to transport, harvested giant freshwater prawns should be properly
405 chilled and maintained at a temperature range of 0°C to 4°C to preserve
406 freshness, quality, and safety.
407
- 408 **8.5.3 Transport**
409

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- 410 **8.5.3.1** Giant freshwater prawns should be transported in clean, sanitized, and well-
411 maintained implements, following protocols to prevent contamination from
412 environmental sources such as air, soil, water, oil, and chemicals.
413
- 414 **8.5.3.2** Live giant freshwater prawns should be transported under conditions that
415 ensure their welfare and maintain their viability. Transport conditions should
416 not exceed a biomass loading of 100 g/L at 21 °C, as recommended by
417 Coyle et al. (2005), to maintain animal welfare and minimize stress and
418 mortality during handling and shipment. Prawns should be kept in clean
419 water with adequate aeration such as through the use of oxygen tanks or
420 aerators
421
- 422 **8.5.3.3** Giant freshwater prawns intended to be sold live, chilled, and frozen for
423 human consumption should be transported in compliance with the existing
424 PNS/BAFS 297:2020 (COP for the processing of shrimp and prawns).
425
- 426 **8.5.3.4** Containers used for transporting giant freshwater prawns with ice should be
427 designed to allow melted water to drain away from the product, ensuring
428 optimal quality and hygiene.
429
- 430 **8.5.3.5** All prohibited additives and chemicals shall not be used in contact with live,
431 chilled, or frozen giant freshwater prawns.
432
- 433 **8.5.3.6** Local Transport Permit (LTP) shall be secured from the issuing competent
434 authority prior to transport.
435
436
- 437 **9 Animal Health and Welfare**
438
- 439 **9.1** Operators shall develop and implement an aquatic animal health plan,
440 following the existing protocols of the competent authorities for the health
441 and management of aquatic animals.
442
- 443 **9.2** Operators shall develop and implement biosecurity measures to effectively
444 manage animal health and prevent the introduction and spread within the
445 farm. Recommended health plan and protocol of the competent authority
446 may be used as reference.
447
- 448 **9.3** Operators shall adhere to the risk-based animal health surveillance
449 program, which includes both passive and active schemes conducted by the
450 competent authority, to ensure effective monitoring and management of
451 aquatic animal health.
452
- 453 **9.4** Operators should develop and implement handling protocols during
454 sampling for the general condition of the stocks and harvesting, to promote
455 aquatic animal welfare.

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- 456
457 **9.5** Operators should maintain a suitable culture environment throughout the
458 production cycle of the species being raised to promote aquatic animal
459 welfare.
460
461 **9.6** Operators should have training for animal welfare on farmed aquatic
462 animals.
463
464 **9.7** Giant freshwater prawn seedstock, wild-sourced or captive propagated by
465 registered hatcheries, should be of good quality and clinically healthy, as
466 confirmed through screening and testing by the competent authority and its
467 recognized laboratories before stocking.
468
469 **9.8** Veterinary drugs and chemicals shall be used in a responsible manner and
470 in accordance with applicable national legislation or relevant international
471 agreements or guidelines that ensure effectiveness for animal health with
472 consideration of public safety and protection of the environment.
473
474 **9.9** Veterinary drugs and chemicals requiring prescription shall only be used
475 under supervision by a qualified expert. Non-prescription substances should
476 be used according to the manufacturer's instructions and as specified on
477 the label.
478
479 **9.10** Treatment and control of diseases using authorized veterinary drugs shall
480 be carried out only based on a proper diagnosis.
481
482 **9.11** For grow-out administering chemicals, withdrawal periods shall be followed.
483 Veterinary drug residues shall be within the limits set in the PNS/BAFS
484 48:2022 (Veterinary Drug Residues in Food — Maximum Residue Limits).
485
486 **9.12** A quarantine protocol shall be established and implemented to control the
487 spread of diseases.
488
489 **9.13** Diseased or dead giant freshwater prawns should be collected immediately
490 and disposed of properly.
491
492 **9.14** Disposal of giant freshwater prawns for disease control purposes shall be
493 authorized by the competent authority, and measures for the notification and
494 control of diseases of aquatic animal origin shall be effectively implemented.
495
496 **9.15** Transport of giant freshwater prawns shall be in accordance with the
497 existing national regulations to prevent the introduction or transfer of
498 diseases and infectious agents pathogenic to giant freshwater prawns.
499 .

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500 **9.16** Use of species in polyculture or Integrated Multi-Trophic Aquaculture (IMTA)
501 systems should be carefully considered to reduce the potential risk of
502 disease transmission.
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10 Environmental Integrity and Sustainability

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511 **10.1** Grow-out activities shall be limited within the designated area for grow-out
512 use based on the approved zoning plan to ensure sustainable resource
513 utilization and maintain the carrying capacity of the ecosystem.
514

515

515 **10.2** Grow-out workers and operators should be trained in environmental
516 management and mitigation of impact to ensure they are aware of their
517 responsibilities in protecting the environment.
518

519

519 **10.3** When wild-sourced stocks are used, they shall be collected using
520 responsible practices or in accordance with national laws and regulations
521 where they exist.
522

523

523 **10.4** Use and production of genetically-modified giant freshwater prawns shall be
524 subjected to existing national regulations.
525

526

526 **10.5** Trapping devices should be installed in areas where potential escapees
527 could occur to reduce the risk of such an event.
528

529

529 **10.6** Exotic species cultured in controlled conditions shall only be used when the
530 competent authority has conducted a risk assessment and determined that
531 their introduction poses no risk to the natural environment, biodiversity, and
532 ecosystem health.
533

534

534 **10.7** Any exotic species shall be disposed of in a manner that prevents their
535 release into the natural environment.
536

537

537 **10.8** The use of lethal methods to eradicate predators, particularly those
538 classified as vulnerable, threatened, or endangered under existing
539 regulations, shall be prohibited.
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541 **10.9** Effective mitigation measures should be taken if the current practices are
542 damaging the habitat or environment.
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- 544 **10.10** Measures should be adopted to promote efficient water management and
545 use, as well as proper management of effluents to reduce impacts and shall
546 comply with existing regulations on surrounding land, and water resources.
547
- 548 **10.11** Discharge water from the grow-out shall be held in effluent, sedimentation,
549 or treatment pond or tank and shall comply with relevant national laws and
550 regulations.
551
- 552 **10.12** Regular monitoring of the environmental quality of the grow-out facilities
553 shall be carried out, and a Self-Monitoring Report (SMR) should be
554 accomplished in accordance with existing regulations.
555
- 556 **10.13** Operators shall participate in the rehabilitation of damaged natural
557 surroundings caused by their grow-out operations.
558
559
- 560 **11** **Socio-Economic Aspects**
561
- 562 **11.1** Workers shall receive fair treatment, salaries, mandatory benefits, and
563 incentives consistent with existing laws and regulations, or any related
564 agreements between the employer and the workers.
565
- 566 **11.2** Living quarters of stay-in labor should be safe, clean, habitable, and
567 convenient.
568
- 569 **11.3** Potable water in adequate supply and suitable toilet facilities should be
570 available and properly maintained.
571
- 572 **11.4** Grow-out operations shall observe the rights of host local communities
573 minimizing potential adverse impacts on public land, infrastructures, fishing
574 grounds, and water resources, following existing laws and regulations.
575
- 576 **11.5** Workers shall not be discriminated against based on gender, race, religion,
577 culture, age, etc.
578
- 579 **11.6** Harmonious, productive, and mutually beneficial relationships with the local
580 community should be maintained to foster responsible business social
581 responsibility.
582
- 583 **11.7** A proactive anti-child labor policy shall be implemented in the farm, ensuring
584 full compliance with existing laws, regulations and other applicable legal
585 requirements.
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- 588 **12** **Traceability and Record Keeping**
589

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590 For traceability purposes, the records specified in Annex A of PNS/BAFS
591 338:2022 (Establishment of Traceability System for Cultured Finfishes and
592 Crustaceans – Guidelines), among other relevant records, should be kept
593 and maintained for at least 24 months.
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**Annex A
(Normative)**

List of banned veterinary drugs in food-producing animals

Regulations	Title
DA-BFAR Administrative Circular No. 256, series of 2015	Declaring malachite green and gentian violet as health hazards and prohibiting their use in food fish production and trade
DA Administrative Order (AO) No. 14, series of 2003	Ban on the use in food animals of beta-agonist drugs used in humans as bronchodilator and tocolytic agents
Department of Health (DOH) and DA Joint AO No. 2, series of 2000	Declaring ban/phase out of the use of nitrofurans in food-producing animals
DOH AO No. 4-A and DA AO No. 1, series of 2000	Banning and withdrawal of olaquinox and carbadox from the market
DOH AO No. 91 and DA AO No. 60, series of 2000	Declaring ban on the use of chloramphenicol in food-producing animals

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Annex B
(Informative)

**Recommended optimum ranges of water and soil quality parameters
for giant freshwater prawn grow-out farms (FAO, 2002)**

Table B.1. Recommended optimum water quality parameters for prawns in grow-out farms

Parameters	Recommended range
Salinity	<10 ppt
Temperature	28–31 °C
Dissolved Oxygen	3–7ppm
pH	7.0–8.5
Ammonia (NH ₃)	<0.3 ppm
Alkalinity	20–60 ppm
Transparency	25–40 cm

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Table B.2. Recommended optimum soil quality parameters for prawns in grow-out farms

Parameters	Recommended value
Area	0.2–1.6 ha
Soil pH	≤4.5 ppm

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Annex C
(Informative)

**Recommended stocking densities for giant freshwater prawn grow-out farms
(SEAFDEC, 2011)**

Culture System	Optimum Level ^a		
	Ponds	Cages	Tanks
Extensive	1–3 PL/m ²	1–4 PL/m ²	
Semi-intensive	4–8PL/m ²	5–20PL/m ²	
Intensive	>10 PL/m ²	>20 PL/m ²	
^a monoculture			

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Annex D
(Informative)

Recommended feeding rates for giant freshwater prawn grow-out farms

Amount of feeds/day = total no. of stocks x average weight x %body weight
= 1000 x 20g x 0.03
= 600g

Table D.1. Recommended feeding rate and frequency for giant freshwater prawns (Aralar)

Prawn weight (g)	Amount of feed to be given (% Body Weight)
<5	10
6-15	7
16-25	5
>25	3

NOTE 1 The recommended feeding rate is based on cage farming

NOTE 2 The prawns may be fed (feeding frequency) once or twice daily with a 30:70 or 40:60 feeding ratio (morning:night)

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