

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

*Initial Draft
As of March 11, 2026*

1 Scope

This Code of Good Aquaculture Practices (GAqP) for giant freshwater prawns covers practices that aim to prevent or minimize the risk associated with aquaculture production in ponds, tanks, and cages. It applies to aquaculture facilities, intended for giant freshwater prawn grow-out culture. The Code addresses food safety, animal health and welfare, environmental integrity, and socio-economic welfare and consists of compliance with technical and legal requirements.

2 Normative References

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

Bureau of Agriculture and Fisheries Standards (BAFS)-Department of Agriculture (DA). (2022a). Establishment of traceability systems for cultured finfishes and crustaceans — Guidelines (PNS/BAFS 338:2022). <https://bafs.da.gov.ph/index.php/approved-philippine-national-standards/>

BAFS-DA. (2022b). Veterinary drug residues in food — Maximum Residue Limit (MRL) (PNS/BAFS 48:2022). <https://bafs.da.gov.ph/index.php/approved-philippine-national-standards/>

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

3 Terms and Definitions

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

3.1

aquaculture facilities

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

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

*Initial Draft
As of March 11, 2026*

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3.2

biosecurity

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

3.3

competent authority

official government agency having jurisdiction (Codex Alimentarius Commission [CAC], 2013); also refers to the bureau or agency mandated by law with responsibility and competence for ensuring and supervising the implementation of sanitary and phytosanitary (SPS) measures, regulations, or standards (BAFS-DA, 2025b)

Note to entry

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

3.4

grow-out

phase in aquaculture where aquatic organisms are raised from juvenile stage to market size (FAO-UN, 2012, *modified*)

3.5

veterinary drug and product

any substance, including biological products, applied or administered to food producing, companion, aquatic, laboratory and exotic animals, whether used for therapeutic, prophylactic or diagnostic purposes or for modification of physiological functions or behaviors (BAFS-DA, 2025a)

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

*Initial Draft
As of March 11, 2026*

93 **4 Use**

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

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

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107 **5 Site Selection**

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109 **5.1 Location**

110

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

115
116 **5.1.2** All existing, new, and expanding grow-out facilities shall secure and present
117 a valid Environmental Compliance Certificate (ECC) or Certificate of Non-
118 Coverage (CNC) in accordance with national regulations.

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

124
125 **5.1.4** Proof of registration (e.g., license to operate, or business permit from the
126 LGU, etc.) and ownership of the farm area (e.g., legal rights and its location
127 map) shall be made available.

128
129 **5.1.5** Grow-out facilities should have access to transportation both inside and
130 outside the farm, for quick operations and transport of inputs and harvested
131 products.

132
133 **5.1.6** Grow-out facilities should have sufficient supply of freshwater and brackish
134 water or seawater where the risk of pollution or contamination can be
135 controlled or mitigated to an acceptable level.

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

*Initial Draft
As of March 11, 2026*

- 139 **5.2 Lay-out and design**
140
- 141 **5.2.1** Grow-out facilities should be used for aquaculture purposes only.
142
- 143 **5.2.2** Grow-out design and layout shall integrate biosecurity measures to prevent
144 cross-contamination, disease outbreak, and damage to existing aquatic
145 habitats.
146
- 147 **5.2.3** Toilet facilities and septic systems shall be properly installed and
148 constructed to prevent contamination of the grow-out facilities.
149
- 150 **5.2.4** Area for cooking and dining shall be separated from the grow-out facilities.
151
- 152 **5.2.5** Equipment and grow-out facilities should be designed to minimize physical
153 damage to the prawns during growing and harvesting.
154
- 155 **5.2.6** Vehicles, equipment, and other implements used for feed, seedstocks, and
156 harvested prawns, should be designed to allow adequate cleaning and
157 disinfection.
158
- 159 **5.2.7** Reservoir ponds and tanks for incoming water should be available to ensure
160 a sufficient water supply.
161
162 Reservoir ponds or tanks should be provided for incoming water to ensure
163 a sufficient water supply.
164
- 165 **5.2.8** Sedimentation or treatment ponds or tanks for effluent shall be available.
166
- 167 **5.2.9** Buffer zones shall be observed in accordance with existing national
168 regulations.
169
170
- 171 **6 Facilities, Sanitation, and Waste Management**
172
- 173 **6.1 Facilities**
174
- 175 **6.1.1** Disposal facilities for wastes should be in suitable and confined areas.
176
- 177 **6.1.2** Fuel, chemical substances (e.g., sanitizer, fertilizer, and reagents), and
178 veterinary drugs should be stored in a storage facility and separated
179 according to the manufacturer's instructions and as specified on the label.
180
- 181 **6.1.3** Regular repair and maintenance should be undertaken to preserve the good
182 physical condition of the facilities.
183

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

Initial Draft

As of March 11, 2026

- 184 **6.1.4** Appropriate life support systems shall be provided in the grow-out ponds
185 and tanks.
186
- 187 **6.1.5** A designated quarantine facility should be established and maintained for
188 the treatment of all diseased prawns.
189
- 190 **6.1.6** Mortality pits shall be established for the disposal of diseased, infected, and
191 dead prawns.
192
- 193 **6.1.7** Machines used in the grow-out facility should be in good condition. Used
194 lubricants shall be placed in an appropriate container and discarded
195 properly in accordance with applicable waste management procedures.
196
- 197 **6.1.8** A safe and reliable electrical system shall be installed to provide a steady
198 and sufficient power supply.
199
- 200 **6.2 Sanitation**
201
- 202 **6.2.1** Wild and domesticated animals shall not be allowed in the production area
203 or its vicinity to prevent contaminants (e.g., feces, parasites, pathogens, and
204 other disease vectors).
205
- 206 **6.2.2** Grow-out facilities and their surroundings, equipment, and implements shall
207 be maintained in a hygienic condition to prevent contamination.
208
- 209 **6.2.3** Adequate procedures for cleaning and disinfection of transport vehicles,
210 containers, and equipment shall be in place and implemented.
211
- 212 **6.2.4** Bathrooms and toilets shall be hygienically maintained to prevent
213 contamination of the grow-out facilities.
214
- 215 **6.2.5** Cleaning materials and disinfectants shall be handled properly to prevent
216 contamination and avoid environmental hazards.
217
- 218 **6.2.6** Operators shall implement safe and responsible management to control
219 pests (e.g., rodents, insects, mites, etc.). Pesticides must be used only when
220 necessary, following proper instructions to protect farm workers, farmed
221 aquatic animals, and the environment.
222
- 223 **6.3 Waste Management**
224
- 225 Waste disposal should be conducted daily and responsibly in accordance
226 with applicable waste management regulations. The grow-out facilities shall
227 take appropriate measures to:
228
- 229 a) dispose wastes in compliance with environmental laws; and

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

*Initial Draft
As of March 11, 2026*

230 b) immediately dispose of dead aquatic organisms in a hygienic manner.

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233 **7 Personnel Health and Hygiene**

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235 **7.1** Workers should be trained on farm-level hygienic practices to ensure
236 awareness of their roles and responsibilities for protecting aquaculture
237 products from contamination and deterioration throughout the production
238 cycle. This includes the following protocol:

239

240 **7.1.1** Training on Occupational Health and Safety (OH&S) should be conducted
241 for the workers to ensure safer farm work conditions.

242

243 **7.1.2** Workers should wear suitable and appropriate working clothes and
244 protective gear. In areas and conditions where risk is high, protective gear
245 shall be used.

246

247 **7.1.3** Workers shall wash their hands each time before commencing work and
248 after completing their work.

249

250 **7.1.4** An adequate quantity of first aid kits should be available and easily
251 accessible at the production area, and laborers should be able to
252 demonstrate awareness of and apply various first aid measures.

253

254 **7.1.5** Workers should cover wounds with waterproof bandages and wear clean,
255 waterproof gloves or boots when applicable.

256

257 **7.1.6** Smoking, spitting, or drinking alcoholic beverages in the working and
258 storage premises shall not be allowed.

259

260 **7.2** Workers should undergo an annual medical examination to ensure they are
261 fit to work.

262

263 **7.3** Workers who have shown signs of medical problems or conditions that may
264 pose health risks shall be excluded from handling fishery products until
265 deemed certified fit to resume work.

266

267

268 **8 Grow-out Management**

269

270 **8.1 Grow-out [facility] preparation**

271

272 **8.1.1** A written protocol for grow-out operations shall be adopted or developed,
273 and implemented consistently with the existing standards.

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

Initial Draft

As of March 11, 2026

- 275 **8.1.2** Practices for the preparation of grow-out facilities should minimize risk for
276 cross-contamination.
277
- 278 **8.1.3** Grow-out facilities and implements shall be disinfected after every operation
279 and prepared properly prior to use.
280
- 281 **8.1.4** Biosecurity measures against the entry of pathogens shall be undertaken at
282 all times.
283
- 284 **8.1.5** Prohibited chemicals or biological substances listed in Annex A (List of
285 banned antimicrobials in food-producing animals) shall not be used in grow-
286 out facility preparation.
287
- 288 **8.1.6** Fertilizers, prebiotics, and probiotics shall be used in accordance with the
289 manufacturer's instructions.
290
- 291 **8.1.7** Operators should regularly monitor soil quality parameters to ensure that it
292 is within the optimal range.
293
- 294 **8.2 Water management**
295
- 296 **8.2.1** Water used for grow-out should be properly filtered, allowed to settle,
297 aerated, and maintained to ensure conditions are suitable for the production
298 of giant freshwater prawns.
299
- 300 **8.2.2** Incoming water shall pass through installed screens or filters to prevent the
301 entry of undesirable species.
302
- 303 **8.2.3** The recommended optimum ranges of water quality parameters, as shown
304 in Annex B (Recommended optimum ranges of water quality parameters for
305 giant freshwater prawn grow-out farms), should be maintained and regularly
306 monitored to ensure suitability for culture.
307
- 308 **8.2.4** Water quality shall be periodically examined for hazards.
309
- 310 **8.3 Stock management**
311
- 312 Stocking density should be optimum for the species and for the culture
313 system as specified in Annex C (Recommended stocking densities for giant
314 freshwater prawn grow-out farms).
315
- 316 **8.4 Feeds and feeding**
317
- 318 **8.4.1** Operators should implement efficient feeding management by administering
319 appropriate feeding regimes based on the culture system and its life stage/s.
320

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

Initial Draft

As of March 11, 2026

- 321 **8.4.2** Grow-out operations should include procedures to prevent feed
322 contamination.
323
- 324 **8.4.3** Commercial formulated feeds shall be obtained from companies registered
325 by the competent authority, in compliance with existing regulations and in
326 conformity with established standards.
327
- 328 **8.4.4** Feed ingredients, additives, premixes, and compound feeding stuff shall be
329 obtained from a company registered and monitored by the competent
330 authorities.
331
- 332 **8.4.5** Non-commercial feeds such as but not limited to live, fresh, and frozen,
333 farm-formulated feeds, and natural food, should be of good quality and
334 suitable for the species.
335
- 336 **8.4.6** If farm-made feeds or fresh diets are used, the protocol on the preparation
337 and administration of such shall be provided.
338
- 339 **8.4.7** Farm-made aquafeeds should meet the nutrient requirements of giant
340 freshwater prawns as presented in the International Aquaculture Feed
341 Formulation Database (IAFFD).
342
- 343 **8.4.8** Live, fresh, frozen, and natural feeds should be of good quality and should
344 be free of pathogens and contaminants.
345
- 346 **8.4.9** Medicated and non-medicated feeds should be stored separately to
347 minimize the risk of feeding to non-target animals.
348
- 349 **8.4.10** Feed additives and veterinary drugs shall comply with the existing
350 regulations and conform to established standards.
351
- 352 **8.4.11** Only registered probiotics and other biological inputs shall be used in the
353 grow-out facilities.
354
- 355 **8.4.12** Feeding practices should minimize the risk for biological, chemical, and
356 physical contaminations of feeds and animals.
357
- 358 **8.4.13** Feeding practices should prioritize the maintenance of water and sediment
359 quality to prevent nutrient overloading and minimize waste.
360
- 361 **8.4.14** Feeds should be stored properly in a separate facility, which is cool and dry
362 to prevent spoilage, mold growth, and contamination. It should be organized
363 to facilitate a first-in, first-out (FIFO) release and use.
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Giant Freshwater Prawn Grow-out — Code of Practice
— Good Aquaculture Practices

*Initial Draft
As of March 11, 2026*

- 367 **8.5 Harvest, postharvest , and transport**
368
369 **8.5.1 Harvest**
370
371 **8.5.1.1** Harvesting equipment and implements shall be cleaned, sanitized, and
372 stored properly.
373
374 **8.5.1.2** Harvesting (either partial or total) should be planned in advance and should
375 be done during the cooler time of the day to minimize stress and mortality
376 of the giant freshwater prawns.
377
378 **8.5.1.3** Harvested giant freshwater prawns should be quickly and hygienically
379 handled, using practices that do not cause contamination, physical damage,
380 and prolonged stress.
381
382 **8.5.1.4** For giant freshwater prawns intended to be sold live, chilled, or frozen,
383 practices should ensure rapid slaughtering to minimize stress and preserve
384 the quality of the product.
385
386 **8.5.1.5** Water and ice used during harvesting should be of a quality suitable for the
387 production of food.
388
389 **8.5.2 Postharvest**
390
391 **8.5.2.1** Postharvest equipment and implements shall be cleaned, sanitized, and
392 stored properly.
393
394 **8.5.2.2** Postharvest operations should be carried out quickly, hygienically, and
395 without damage to the product.
396
397 **8.5.2.3** Food additives and chemicals, which are used in contact with products, shall
398 comply with prevailing legal requirements.
399
400 **8.5.2.4** Postharvest wastes should be properly disposed of in designated areas to
401 minimize the risk of cross-contamination.
402
403 **8.5.2.5** Clean water should be readily and sufficiently available for handling and
404 cleaning operations.
405
406 **8.5.2.6** Ice shall be made from potable water and sourced from approved
407 establishments by the competent authority.
408
409 **8.5.2.7** Ice should be received [obtained], handled, and stored under proper
410 sanitary conditions, to prevent or minimize the risk of contamination.
411

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

Initial Draft

As of March 11, 2026

412 **8.5.2.8** Prior to transport, harvested giant freshwater prawns should be properly
413 chilled and maintained at a temperature range of 0°C to 4°C to preserve
414 freshness, quality, and safety. For live prawns, they should be maintained
415 in a cool (i.e., 24-28 °C) and moist condition.

416
417 **8.5.3 Transport**

418
419 **8.5.3.1** Giant freshwater prawns should be transported in clean, sanitized, and well-
420 maintained implements, following protocols to prevent contamination from
421 environmental sources such as air, soil, water, oil, and chemicals.

422
423 **8.5.3.2** Live giant freshwater prawns should be transported under conditions that
424 ensure their welfare and maintain their viability. Prawns should be kept in
425 clean water with adequate aeration such as through the use of oxygen tanks
426 or aerators. The water temperature should be maintained between 24-28°C
427 to minimize stress. Appropriate stocking density should be observed to
428 prevent overcrowding, stress, and injury among prawns.

429
430 **8.5.3.3** Giant freshwater prawns intended to be sold live, chilled, and frozen for
431 human consumption should be transported in compliance with the existing
432 PNS/BAFS 297:2020 (COP for the processing of shrimp and prawns).

433
434 **8.5.3.4** Containers used for transporting giant freshwater prawns with ice should be
435 designed to allow melted water to drain away from the product, ensuring
436 optimal quality and hygiene.

437
438 **8.5.3.5** All prohibited additives and chemicals shall not be used in contact with live,
439 chilled, or frozen giant freshwater prawns.

440
441 **8.5.3.6** Local Transport Permit (LTP) shall be secured from the issuing competent
442 authority prior to transport.

443
444
445 **9 Animal Health and Welfare**

446
447 **9.1** Operators shall develop and implement an aquatic animal health plan,
448 following the existing protocols of the competent authorities for the health
449 and management of aquatic animals.

450
451 **9.2** Operators shall develop and implement biosecurity measures to effectively
452 manage animal health and prevent the introduction and spread within the
453 farm. Recommended health plan and protocol of the competent authority
454 may be used as reference.

455
456 **9.3** Operators shall adhere to the risk-based animal health surveillance
457 program, which includes both passive and active schemes conducted by the

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

Initial Draft

As of March 11, 2026

- 458 competent authority, to ensure effective monitoring and management of
459 aquatic animal health.
460
- 461 **9.4** Operators should develop and implement handling protocols during
462 sampling for the general condition of the stocks and harvesting, to promote
463 aquatic animal welfare.
464
- 465 **9.5** Operators should maintain a suitable culture environment throughout the
466 production cycle of the species being raised to promote aquatic animal
467 welfare.
468
- 469 **9.6** Operators should have training for animal welfare on farmed aquatic
470 animals.
471
- 472 **9.7** Giant freshwater prawn seedstock, wild-sourced or captive propagated by
473 registered hatcheries, should be of good quality and clinically healthy, as
474 confirmed through screening and testing by the competent authority and its
475 recognized laboratories before stocking.
476
- 477 **9.8** Veterinary drugs and chemicals shall be used in a responsible manner and
478 in accordance with applicable national legislation or relevant international
479 agreements or guidelines that ensure effectiveness for animal health with
480 consideration of public safety and protection of the environment.
481
- 482 **9.9** Substances [Veterinary drugs and chemicals] requiring prescription shall
483 only be used under supervision by a qualified expert. Non-prescription
484 substances should be used according to the manufacturer's instructions and
485 as specified on the label.
486
- 487 **9.10** Treatment and control of diseases using authorized veterinary drugs shall
488 be carried out only based on a proper diagnosis.
489
- 490 **9.11** For grow-out administering chemicals, withdrawal periods shall be followed.
491 Veterinary drug residues shall be within the limits set in the PNS/BAFS
492 48:2022 (Veterinary Drug Residues in Food — Maximum Residue Limits).
493
- 494 **9.12** A quarantine protocol shall be established and implemented to control the
495 spread of diseases.
496
- 497 **9.13** Diseased or dead giant freshwater prawns should be collected immediately
498 and disposed of properly.
499
- 500 **9.14** Disposal of giant freshwater prawns for disease control purposes shall be
501 authorized by the competent authority, and measures for the notification and
502 control of diseases of aquatic animal origin shall be effectively implemented.
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**Giant Freshwater Prawn Grow-out — Code of Practice
— Good Aquaculture Practices**

Initial Draft

As of March 11, 2026

- 504 **9.15** Transport of giant freshwater prawns shall be in accordance with the
505 existing national regulations to prevent the introduction or transfer of
506 diseases and infectious agents pathogenic to giant freshwater prawns.
507 .
- 508 **9.16** Use of species in polyculture or Integrated Multi-Trophic Aquaculture (IMTA)
509 systems should be carefully considered to reduce the potential risk of
510 disease transmission.
511
- 512
- 513 **10 Environmental Integrity and Sustainability**
514
- 515 **10.1** Grow-out activities shall be limited within the designated area for grow-out
516 use based on the approved zoning plan to ensure sustainable resource
517 utilization and maintain the carrying capacity of the ecosystem.
518
- 519 **10.2** Grow-out workers and operators should be trained in environmental
520 management and mitigation of impact to ensure they are aware of their
521 responsibilities in protecting the environment.
522
- 523 **10.3** When wild-sourced stocks are used, they shall be collected using
524 responsible practices or in accordance with national laws and regulations
525 where they exist.
526
- 527 **10.4** Use and production of genetically-modified giant freshwater prawns shall be
528 subjected to existing national regulations.
529
- 530 **10.5** Trapping devices should be installed in areas where potential escapees
531 could occur to reduce the risk of such an event.
532
- 533 **10.6** Exotic species cultured in controlled conditions shall be used when the
534 competent authority has conducted a risk assessment and determined that
535 their introduction poses no risk to the natural environment, biodiversity, and
536 ecosystem health.
537
- 538 **10.7** Any exotic species shall be disposed of in a manner that prevents their
539 release into the natural environment.
540
- 541 **10.8** The use of lethal methods to eradicate predators, particularly those
542 classified as vulnerable, threatened, or endangered under existing
543 regulations, shall be prohibited.
544
- 545 **10.9** Effective mitigation measures should be taken if the current practices are
546 damaging the habitat or environment.
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**Giant Freshwater Prawn Grow-out — Code of Practice
— Good Aquaculture Practices**

Initial Draft

As of March 11, 2026

- 548 **10.10** Measures should be adopted to promote efficient water management and
549 use, as well as proper management of effluents to reduce impacts and shall
550 comply with existing regulations on surrounding land, and water resources.
551
- 552 **10.11** Discharge water from the grow-out shall be held in effluent, sedimentation,
553 or treatment pond or tank and shall comply with relevant national laws and
554 regulations.
555
- 556 **10.12** Regular monitoring of the environmental quality of the grow-out facilities
557 shall be carried out, and a Self-Monitoring Report (SMR) should be
558 accomplished in accordance with existing regulations.
559
- 560 **10.13** Operators shall participate in the rehabilitation of damaged natural
561 surroundings caused by their grow-out operations.
562
- 563
- 564 **11 Socio-Economic Aspects**
565
- 566 **11.1** Workers shall receive fair treatment, salaries, mandatory benefits, and
567 incentives consistent with existing laws and regulations, or any related
568 agreements between the employer and the workers.
569
- 570 **11.2** Living quarters of stay-in labor should be safe, clean, in good habitable
571 condition [habitable], and convenient.
572
- 573 **11.3** Potable water in adequate supply and suitable toilet facilities should be
574 available and properly maintained.
575
- 576 **11.4** Grow-out operations shall observe the rights of host local communities
577 minimizing potential adverse impacts on public land, infrastructures, fishing
578 grounds, and water resources, following existing laws and regulations.
579
- 580 **11.5** Workers shall not be discriminated against based on gender, race, religion,
581 culture, age, etc.
582
- 583 **11.6** Harmonious, productive, and mutually beneficial relationships with the local
584 community should be maintained to foster responsible business social
585 responsibility.
586
- 587 **11.7** A proactive anti-child labor policy shall be implemented in the farm, ensuring
588 full compliance with existing laws, regulations and other applicable legal
589 requirements.
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Giant Freshwater Prawn Grow-out — Code of Practice
— Good Aquaculture Practices

*Initial Draft
As of March 11, 2026*

594 **12 Traceability and Record Keeping**
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596 For traceability purposes, the records specified in Annex A of PNS/BAFS
597 338:2022 (Establishment of Traceability System for Cultured Finfishes and
598 Crustaceans – Guidelines), among other relevant records, should be kept
599 and maintained for at least 24 months.
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Giant Freshwater Prawn Grow-out — Code of Practice
— Good Aquaculture Practices

*Initial Draft
As of March 11, 2026*

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Annex A
(Normative)

List of banned veterinary drugs in food-producing animals

Regulations	Title
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

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

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

*Initial Draft
As of March 11, 2026*

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Annex C
(Informative)

**Recommended stocking densities for giant freshwater prawn grow-out farms
(SEAFDEC, 2025)**

Culture System	Optimum Level		
	Ponds	Cages	Tanks
Extensive	1–4 PL/m ²		
Semi-intensive	5–20PL/m ²		
Intensive	>20 PL/m ²		

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

*Initial Draft
As of March 11, 2026*

Annex D

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. Stages of freshwater prawn growth through commercial and natural food (Philippines Recommends, 2026)

Commercial Feeds		
Stage	%Body Weight	Feed Type
Juvenile	3	Grower
Adult	2	Finisher
Natural Food		
Stage	%Body Weight	Feed Type
Juvenile	10	Flesh/meat of Golden Snail in addition to soft stems and leaves of leftover fresh vegetables.
Adult	5	

Table D.2. 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
>26	4
Feeding frequency once or twice daily	

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

*Initial Draft
As of March 11, 2026*

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Giant Freshwater Prawn Grow-out — Code of Practice
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Initial Draft

As of March 11, 2026

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