

Table 6 Risk assessment for manual feeding activities in aquaculture

Company	NA
Conducted by (name, designation, date)	Y. van Ram Sri, Researcher, 20 Aug 2026
Process / location	Manual feeding in aquaculture
Approved by (name, designation, date)	Sri Yahweh van Ram, Researcher, 20 Aug 2026
Last review date	NA
Next review date	20-Jul-29

Table 7 Risk assessment for machinery-assisted aquaculture operations

No.	Work activity	Hazard	Possible accident / ill-health & persons at risk	Existing risk control	Risk (S × L = RPN, level)	Additional risk control	Action officer
1	Transporting fish feed	Ergonomic; lifting heavy loads	Soft-tissue injury (sprains, strains); operations staff	Train on proper lifting technique; strength training	3 × 3 = 9 (Medium)	Distribute load by dividing the weight	Operations Manager
2	Fish feeding	Physical; slippery/moist floor (slip, trip, fall)	Fractures and dislocated joints; operations staff	PPE non-slip boots; ventilators	3 × 2 = 6 (Medium)	Regular maintenance and inspection of premises	Operations Manager (on-going)
3	Fish feeding	Ergonomic; prolonged standing, repetitive strain	Soft-tissue injury (sprains, strains); operations staff	Adequate lighting; distribute load	3 × 3 = 9 (Medium)	Worker rotation; lifting-technique training	Operations Manager (on-going)
4	Fish feeding	Biological; inhalation of pathogenic wastewater	Legionella pneumophila infection; operations staff	Service ventilators every 6 months with anti-bacterial wash	2 × 4 = 8 (Medium)	Engineering control of aerosol generation at source; quarterly antibacterial treatment	Operations Manager
5	Storage of fish feed	Biological; contamination of feed	Diseased livestock; damaged goods	Dry, clean storage; monitor feed expiry	3 × 3 = 9 (Medium)	Monthly maintenance of storage facility	Operations Manager (on-going)
6	Shelving and storage of feed	Physical; falling object (feed container)	Head injury, potentially fatal; operations staff	Safety harness; protective helmet	4 × 2 = 8 (Medium)	Regular inspection; keep feed within designated shelving	Operations Manager
7	Harvesting	Needle-stick objects and sharp teeth	Incised/puncture wound, laceration, infection; harvesting staff	Cut-resistant gloves; adequate lighting	3 × 3 = 9 (Medium)	Handling tools to avoid direct hand contact; worker rotation	Operations & Admin Manager (on-going)
8	Transporting the harvest	Ergonomic; lifting heavy loads	Soft-tissue injury; operations staff	Train on lifting technique; strength training	3 × 3 = 9 (Medium)	Distribute load by dividing weight	Operations Manager
9	Transporting the harvest	Physical; slippery floor (slip, trip, fall)	Fractures and dislocated joints; operations staff	PPE non-slip boots; ventilators	3 × 2 = 6 (Medium)	Regular maintenance and inspection	Operations Manager (on-going)

Table 8 Risk assessment information for machinery-assisted aquaculture operations

Company	NA
Conducted by (name, designation, date)	Y. van Ram Sri, Researcher, 20 Aug 2026
Process / location	Machinery used in the aquaculture farming system
Approved by (name, designation, date)	Sri Yahweh van Ram, Researcher, 20 Aug 2026
Last review date	NA
Next review date	20-Jul-29